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BUREAU OF SHIPS GROUP
TECHNICAL INSPECTION REPORT

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By Authority of Joint Chiefs of Staff (Action 15 Apr 40)
By James H. Duffell Date 24 Apr 51

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U.S.S. PENSACOLA (CA24)

TEST BAKER

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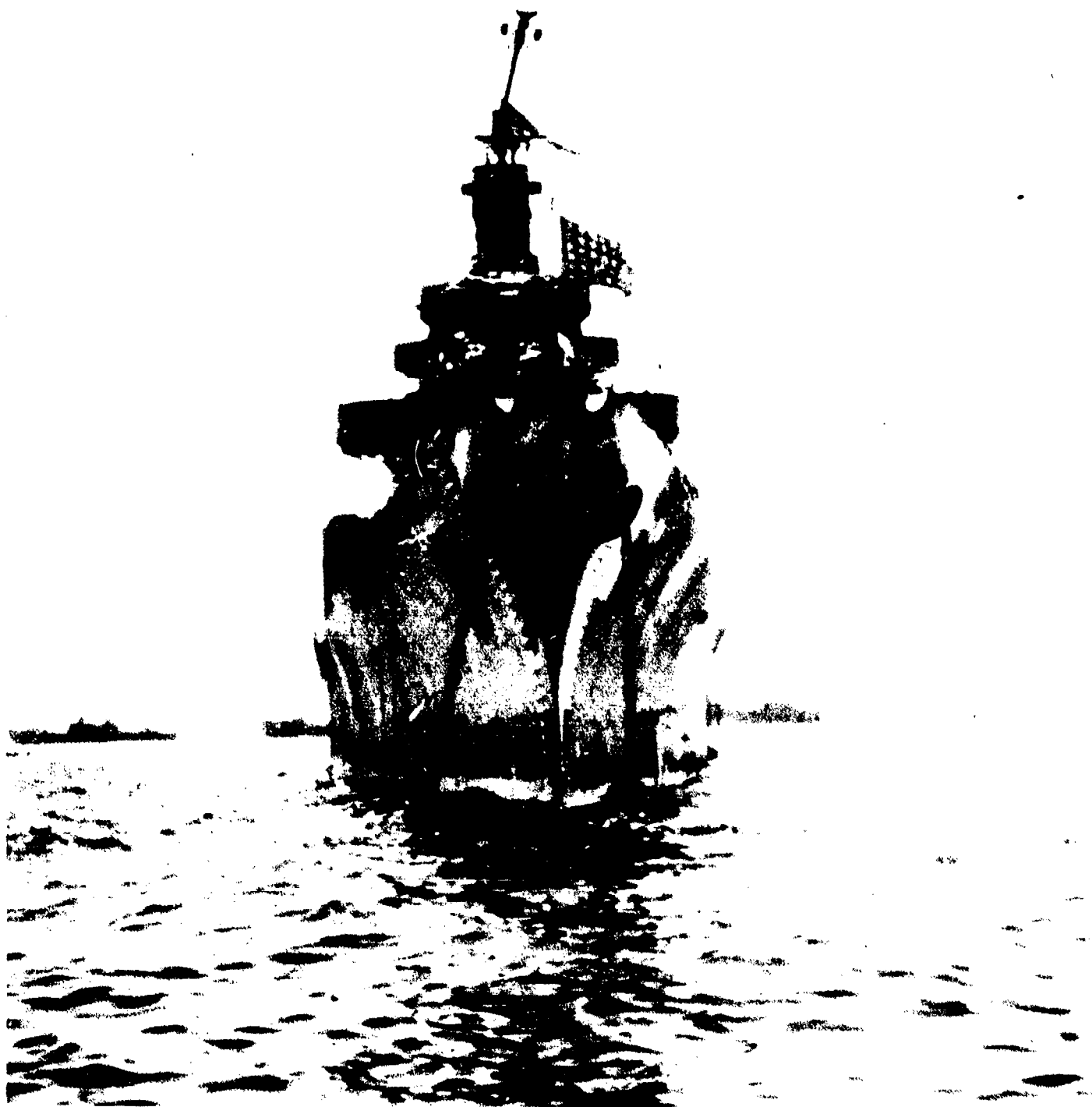
F. X. Forest,
Captain, U.S.N.

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BB-CR-227-520-113. Bow before Test B.

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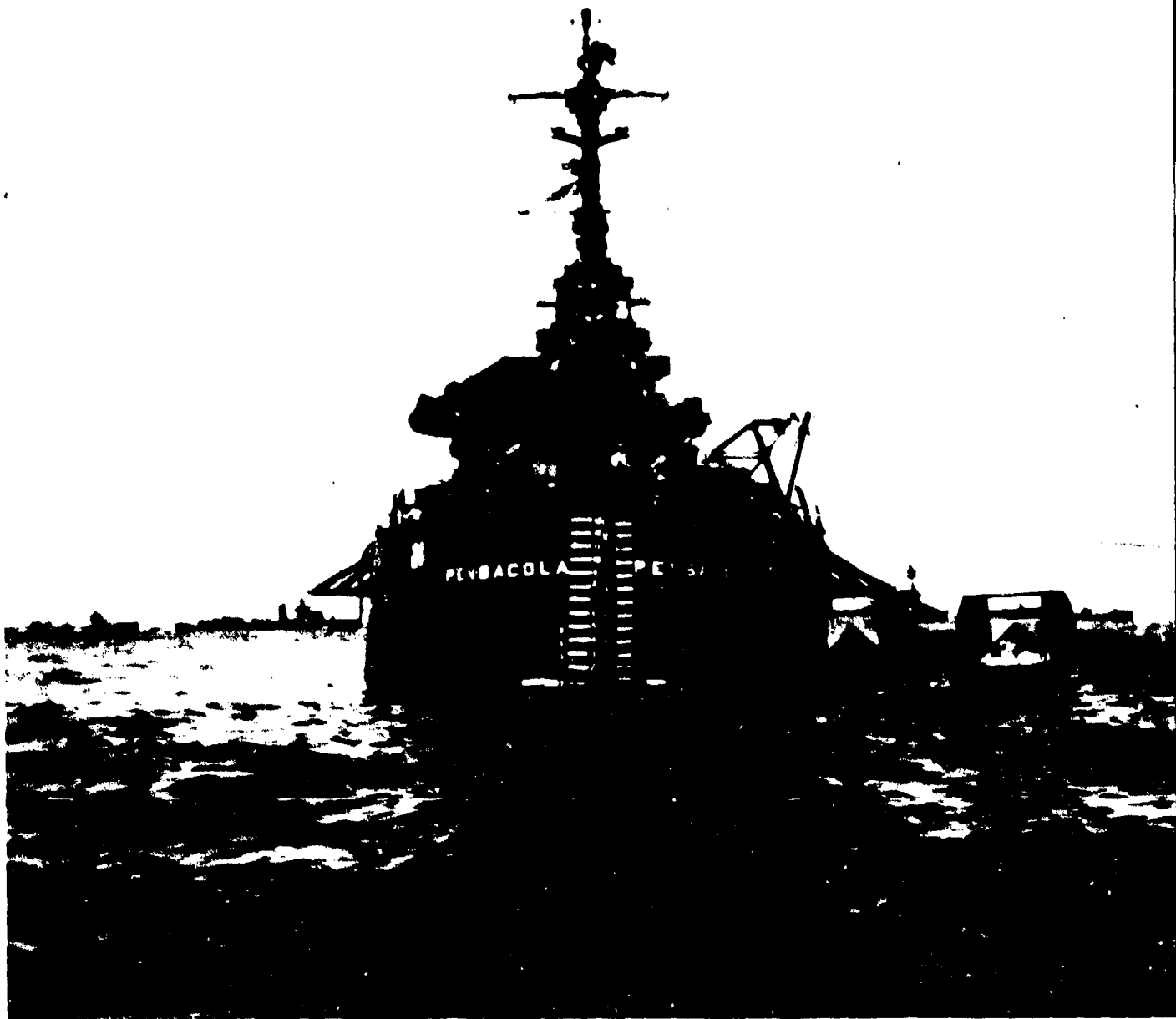
AB-CR-227-283-11. Bow after Test B.

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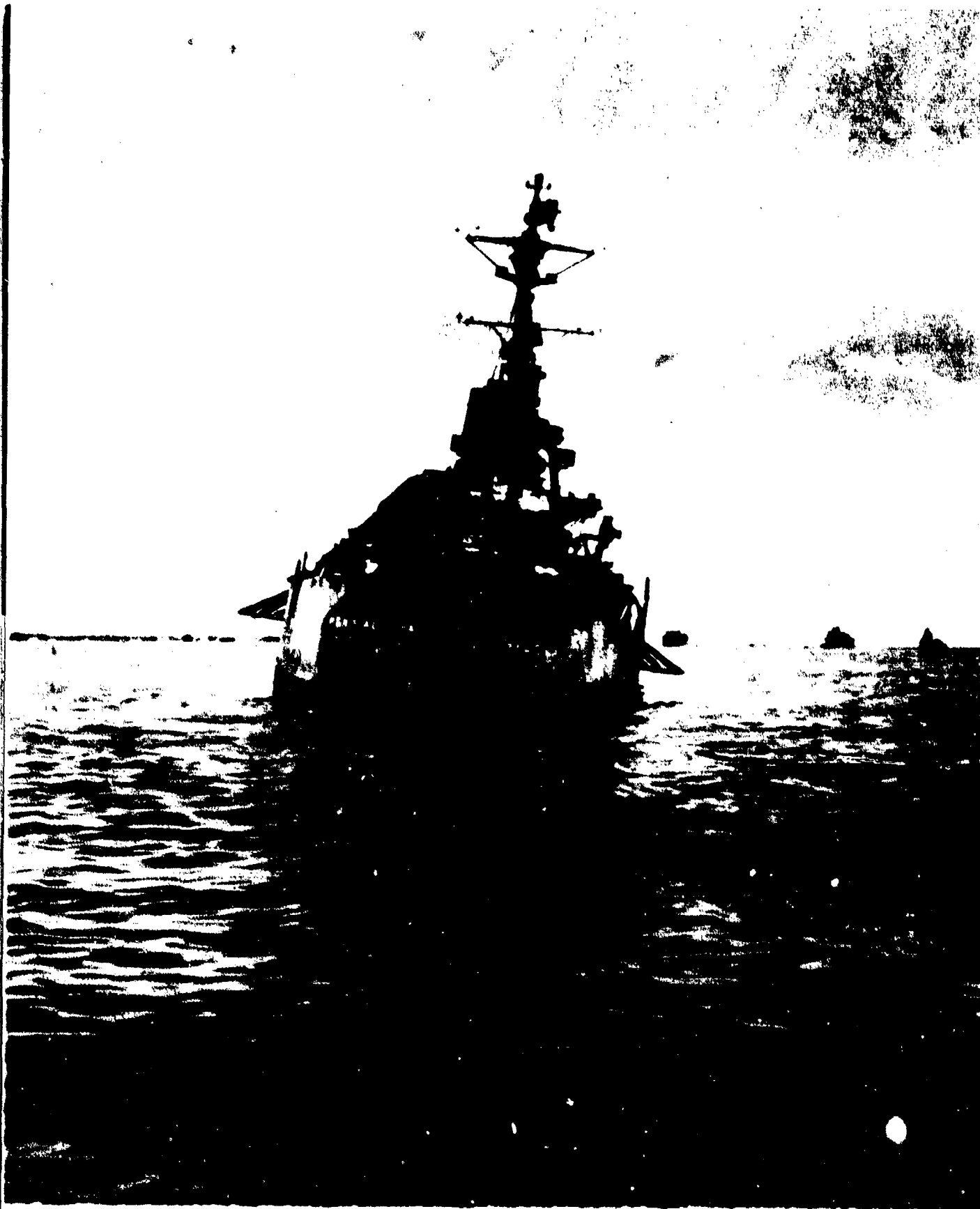
BB-CR-227-520-117. Stern before Test B.

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AB-CR-227-283-15. Stern after Test B.

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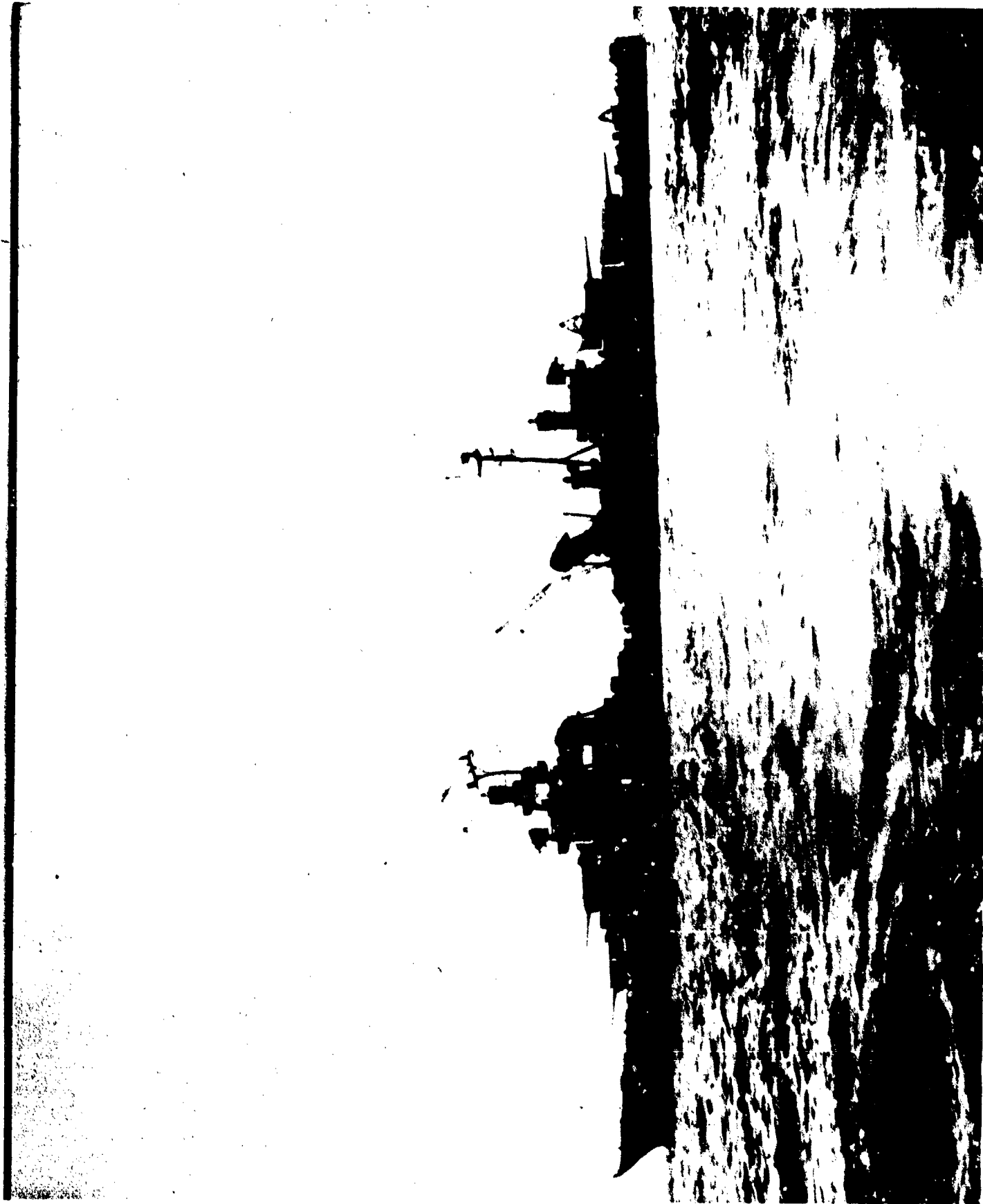
AB-CR-79-2957-4. View from off port bow.

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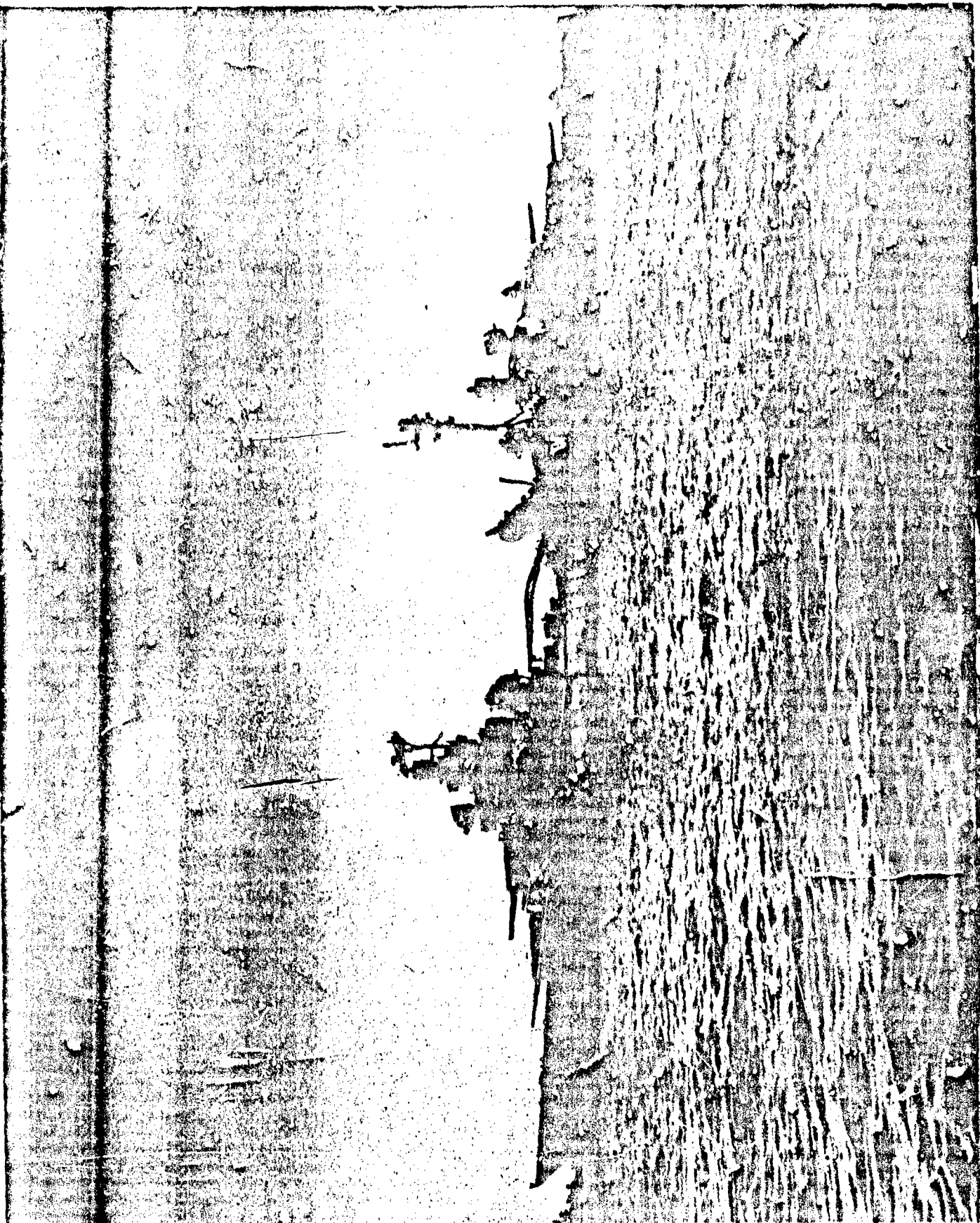
BB-CR-227-520-119. Port beam before Test B.

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AB-CR-227-283-13. Port beam after Test B.

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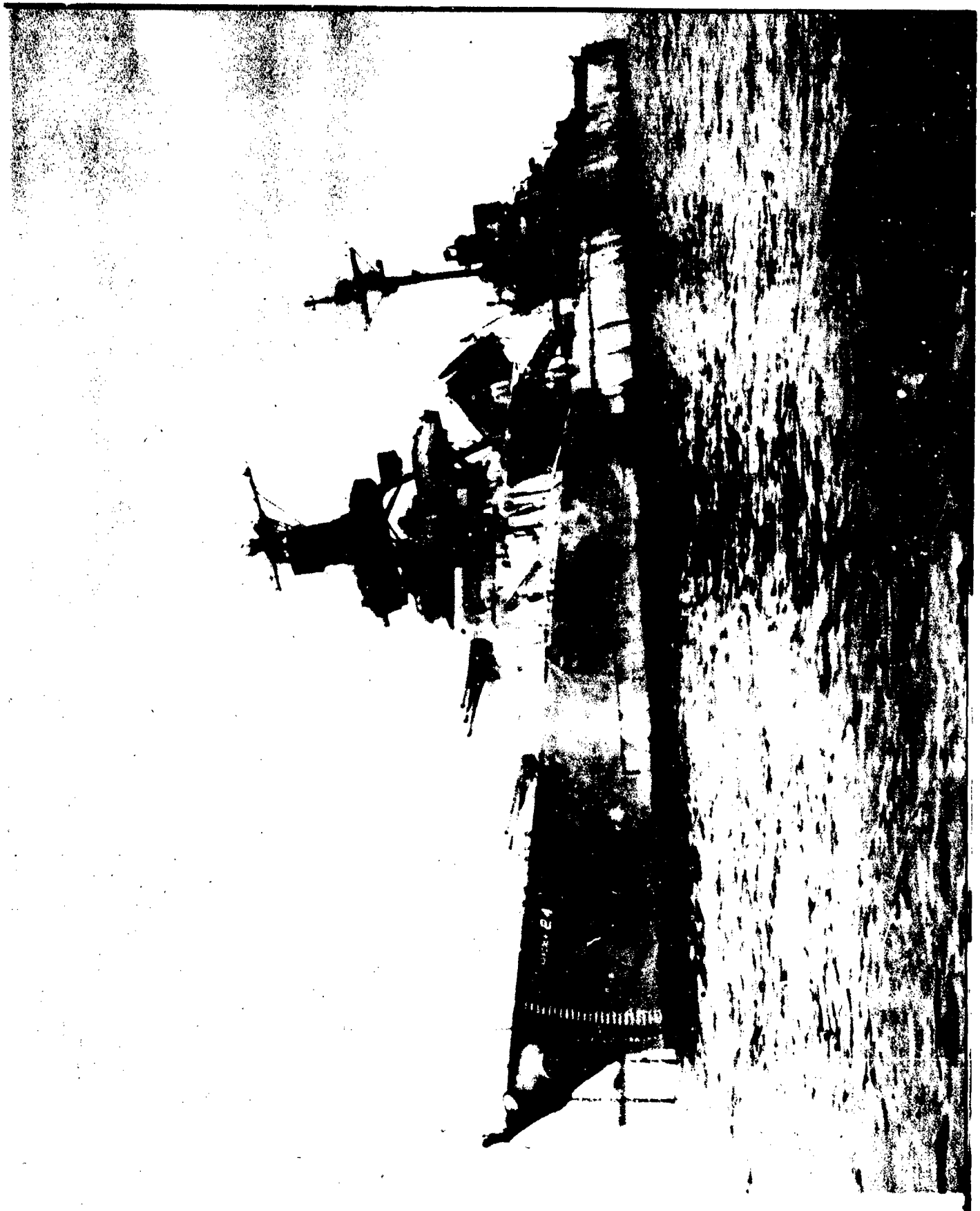
BB-CR-227-520-120. Port beam before Test B.

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AB-CR-227-283-12. Port beam after Test B.

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BB-CR-227-520-118. Port quarter before Test B.

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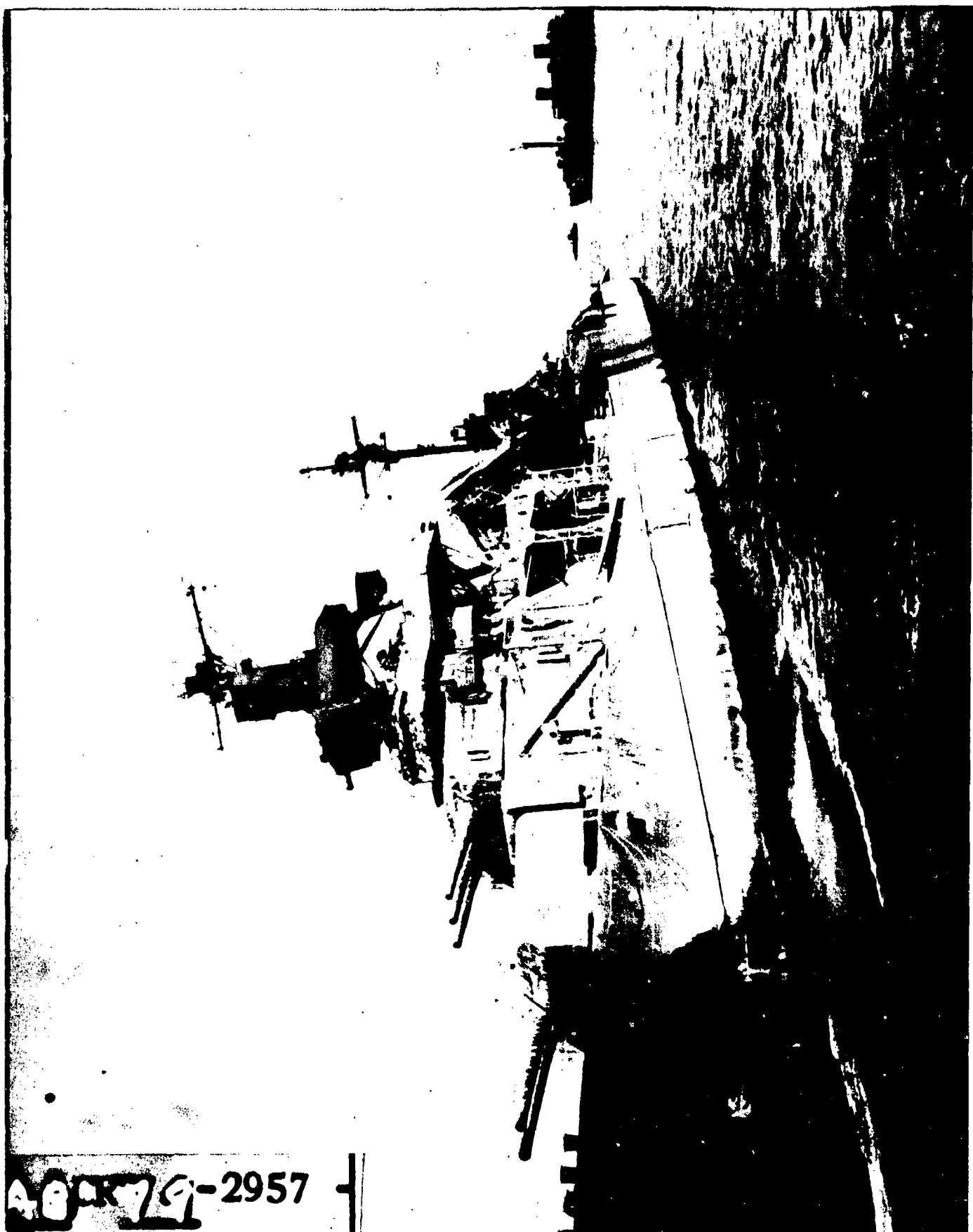
AB-CR-227-283-14. Port quarter after Test B.

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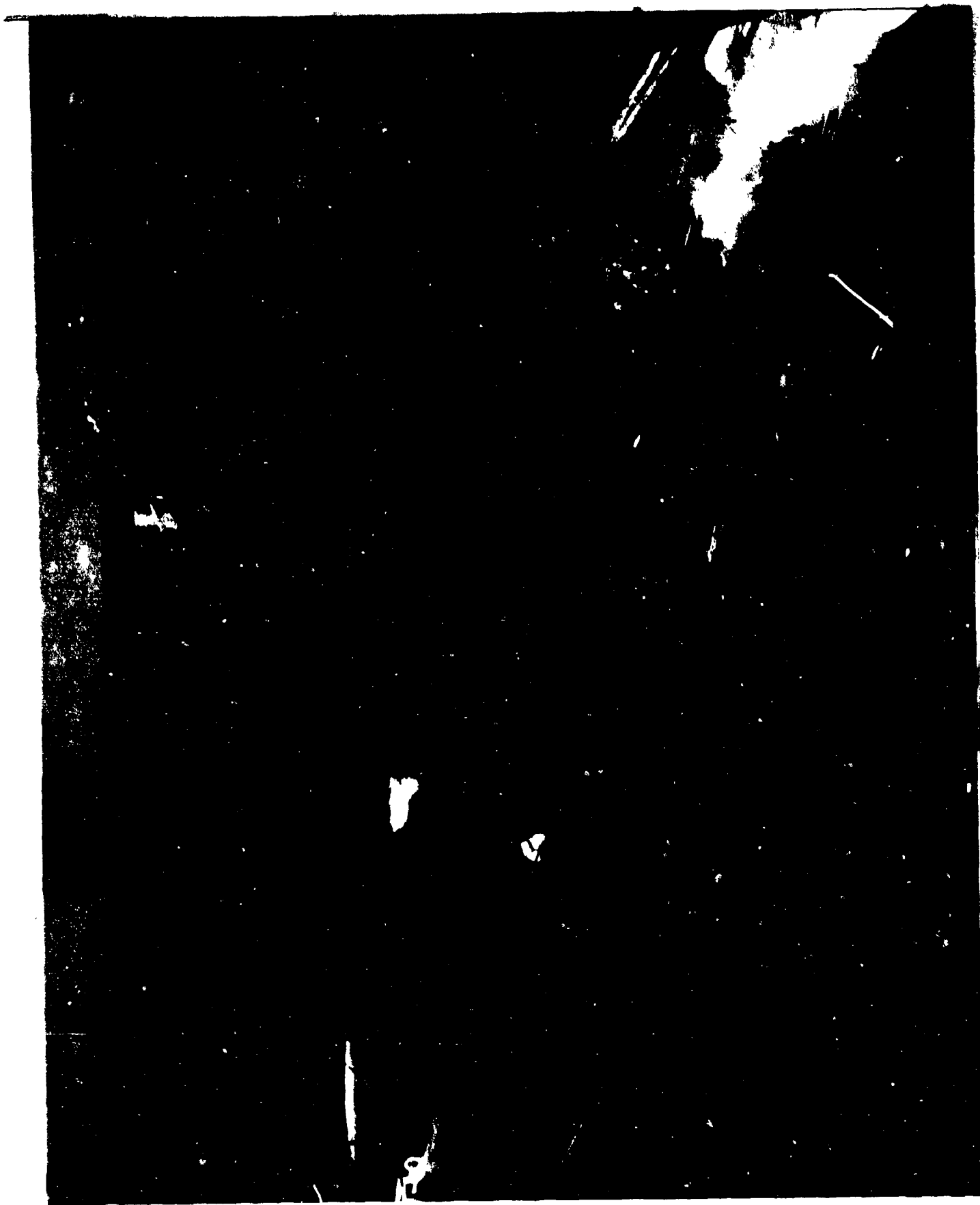
AB-CR-79-2957-3. View from off port bow. Compare attitude of stacks, fore topmast, and forward director with after Able photos 1832-2, and 1860-3.

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AB-CR-79-2959-9. Looking forward and to starboard at forward superstructure from off port beam.

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AB-CR-79-2957-12. Superstructure, from port quarter, looking forward.

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AB-CR-79-4073-7. Port side from frame 30 to 50, triangulation photograph.

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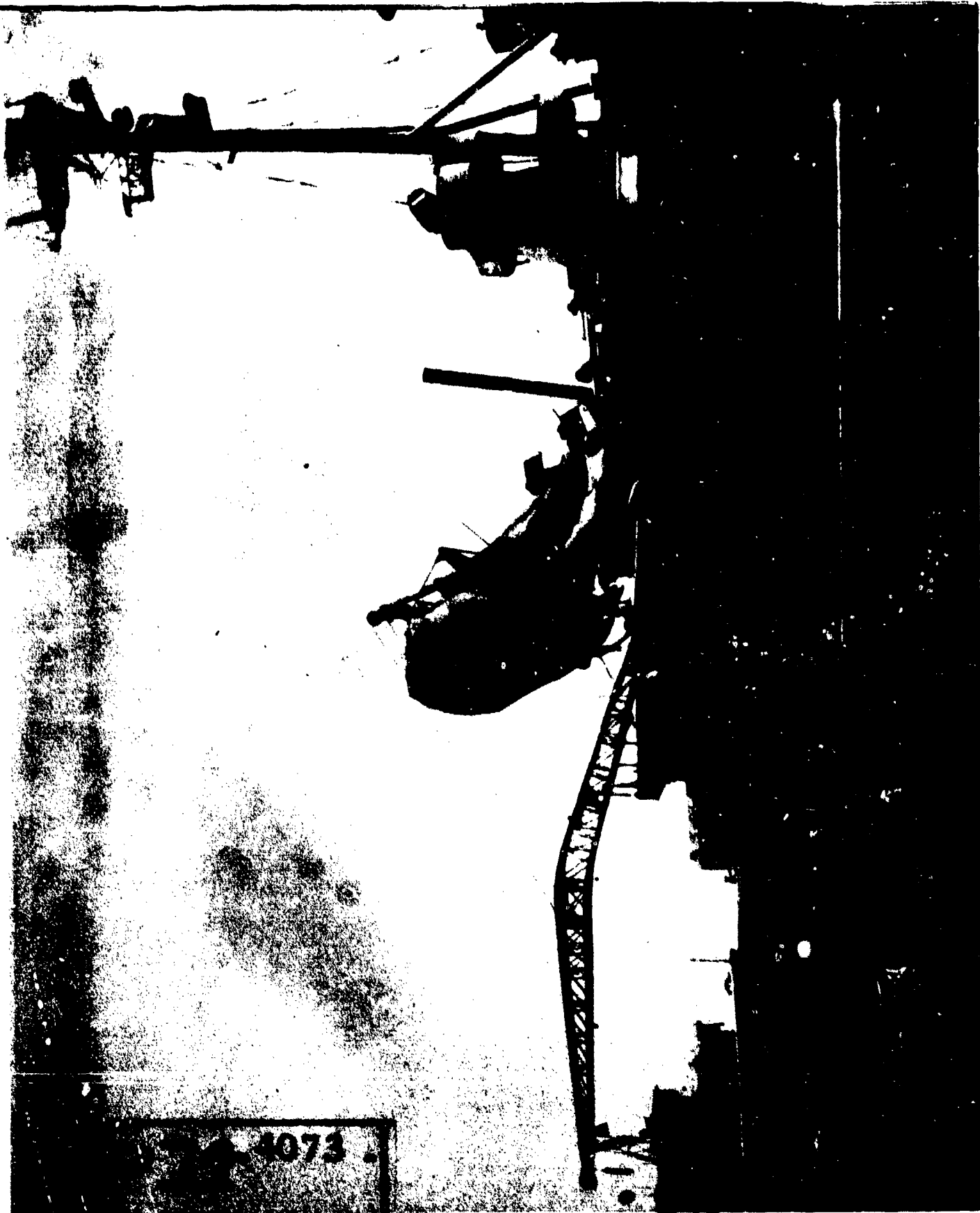
AB-CR-79-4073-6. Port side from frame 50 to 70, triangulation photograph.

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AB-CR-79-4073-4. Port side from frame 70 to 90, triangulation photograph.

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AB-CR-175-2186-11. View of port side and after superstructure, from amidships.

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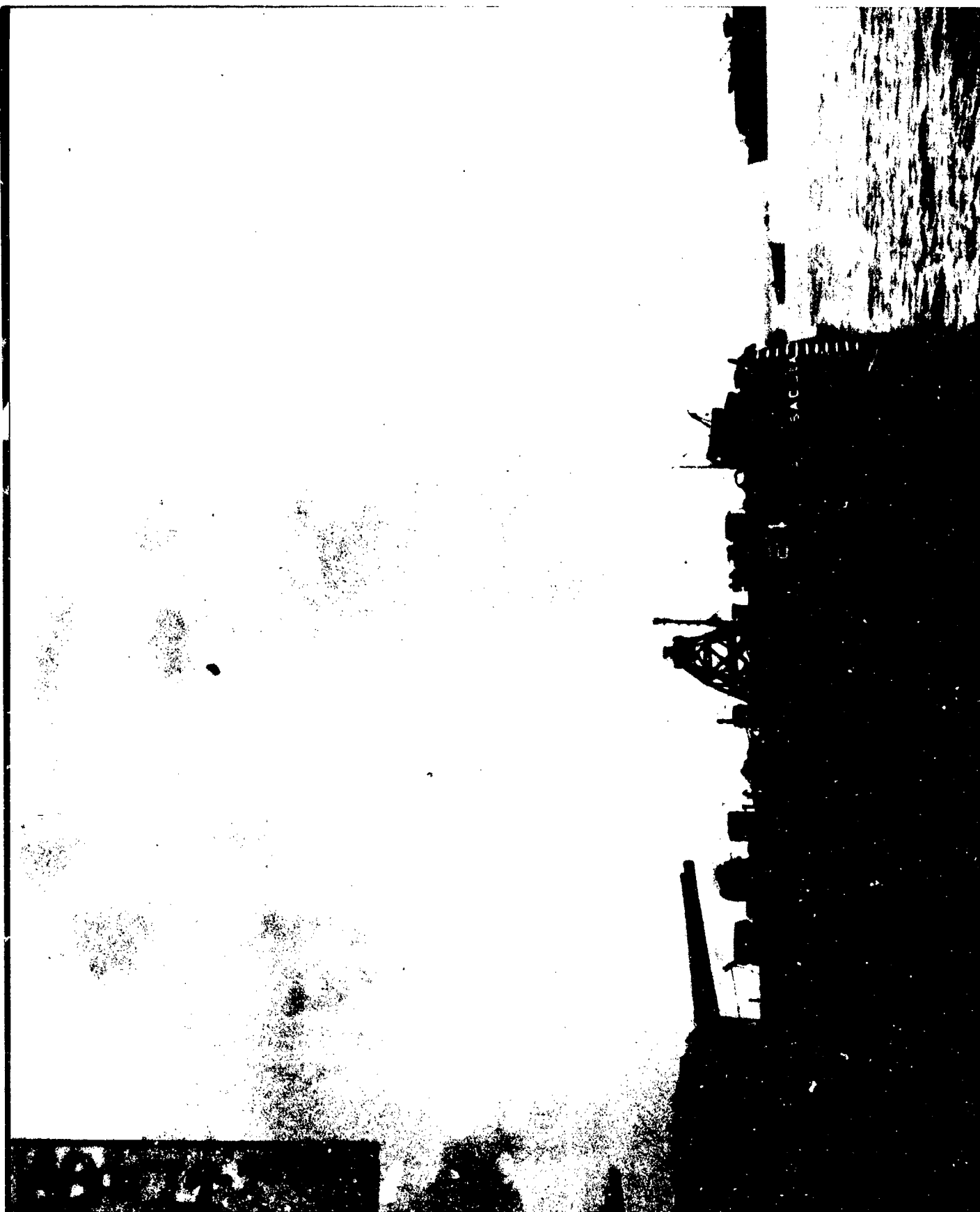
AB-CR-79-4073-3. Port side from frame 100 to 120, triangulation Photograph.

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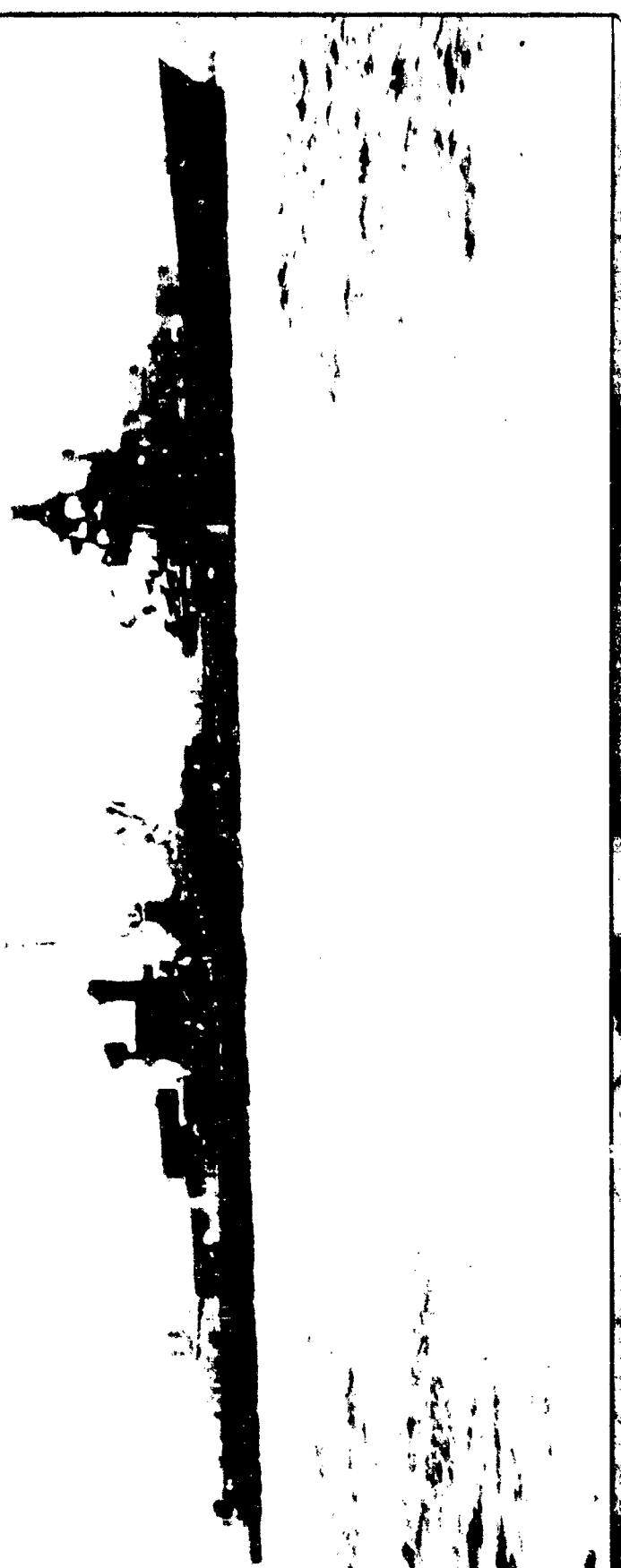
AB-CR-79-4073-1. Port quarter showing dishing of shell plating. Triangulation photograph (Able damage).

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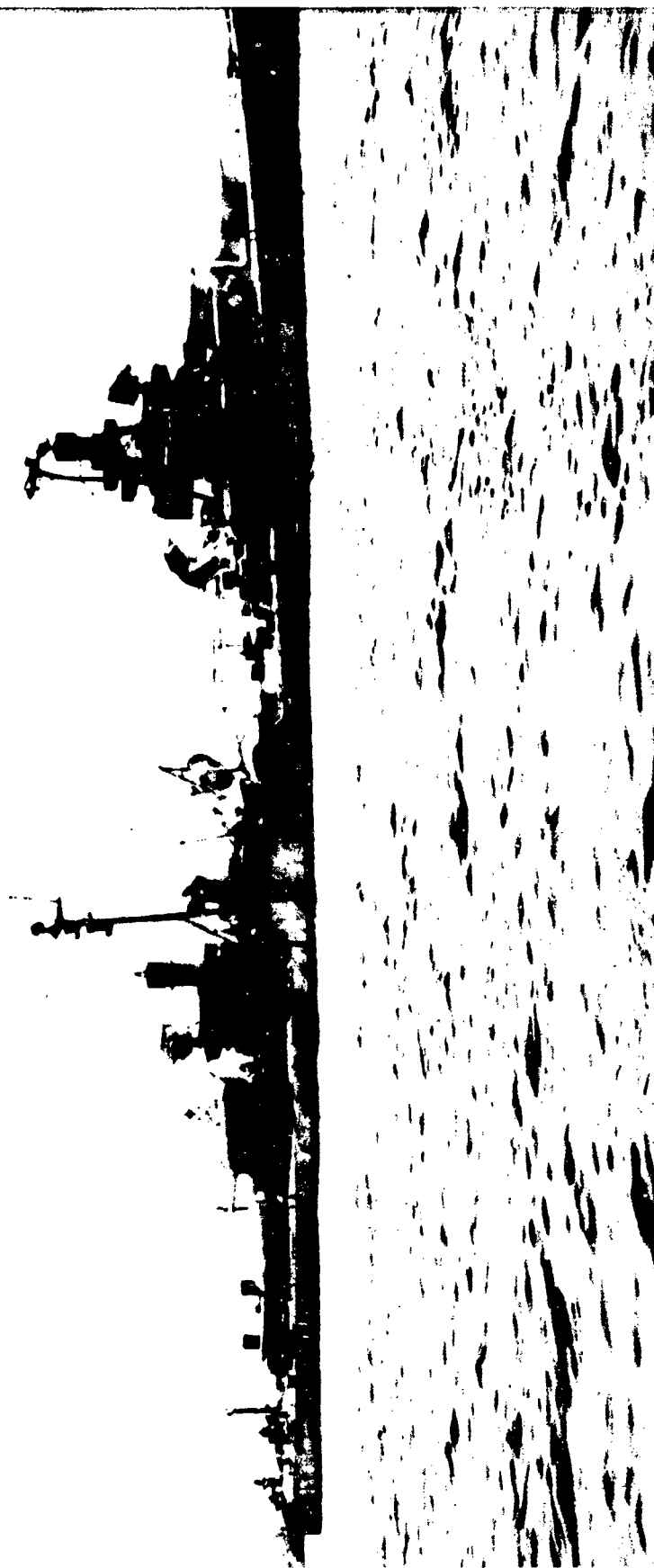
BB-CR-227-520-115. Starboard beam before Test B.

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AB-CR-227-283-9. Starboard beam after Test B.

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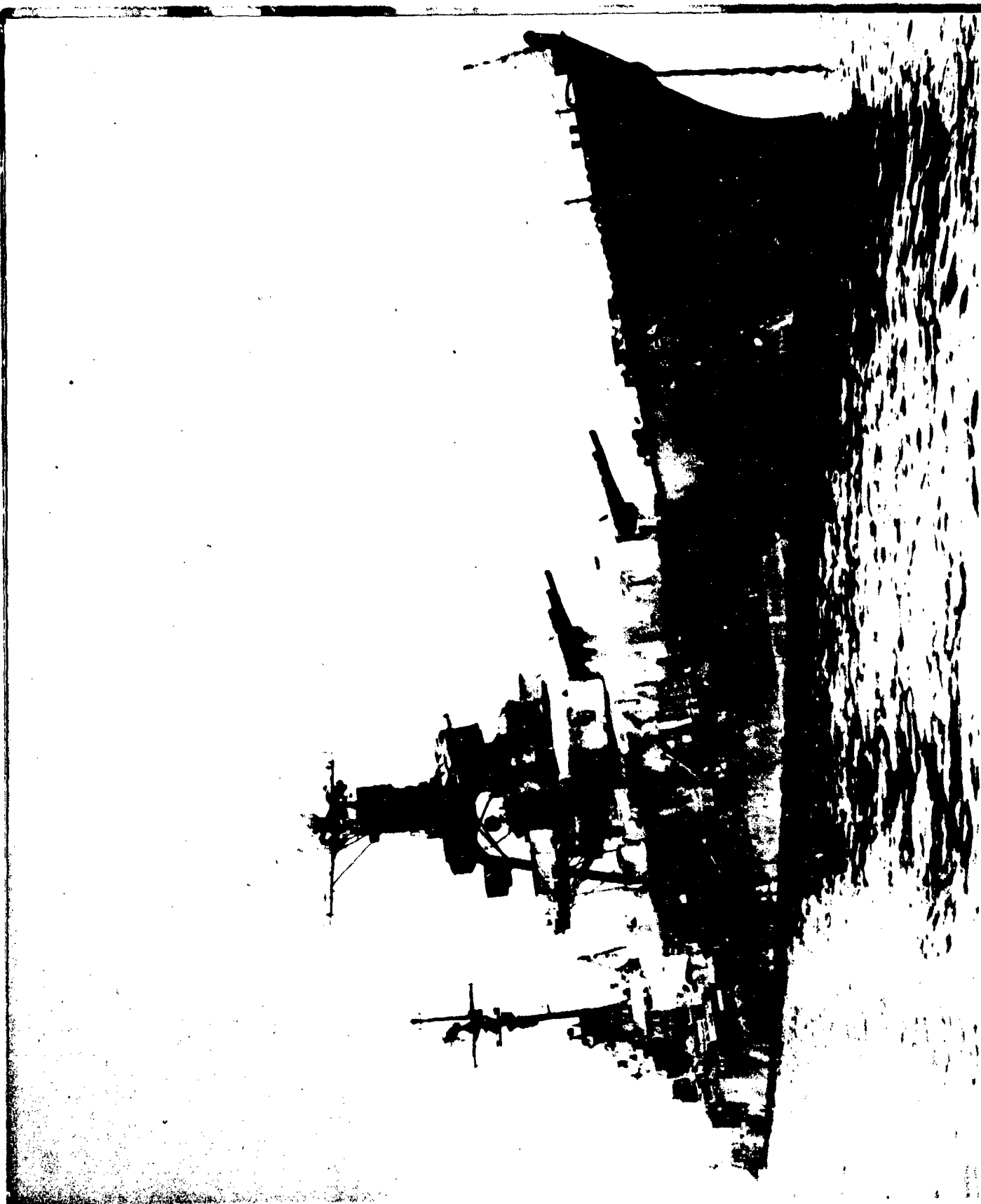
BB-CR-227-520-114. Starboard bow before Test B.

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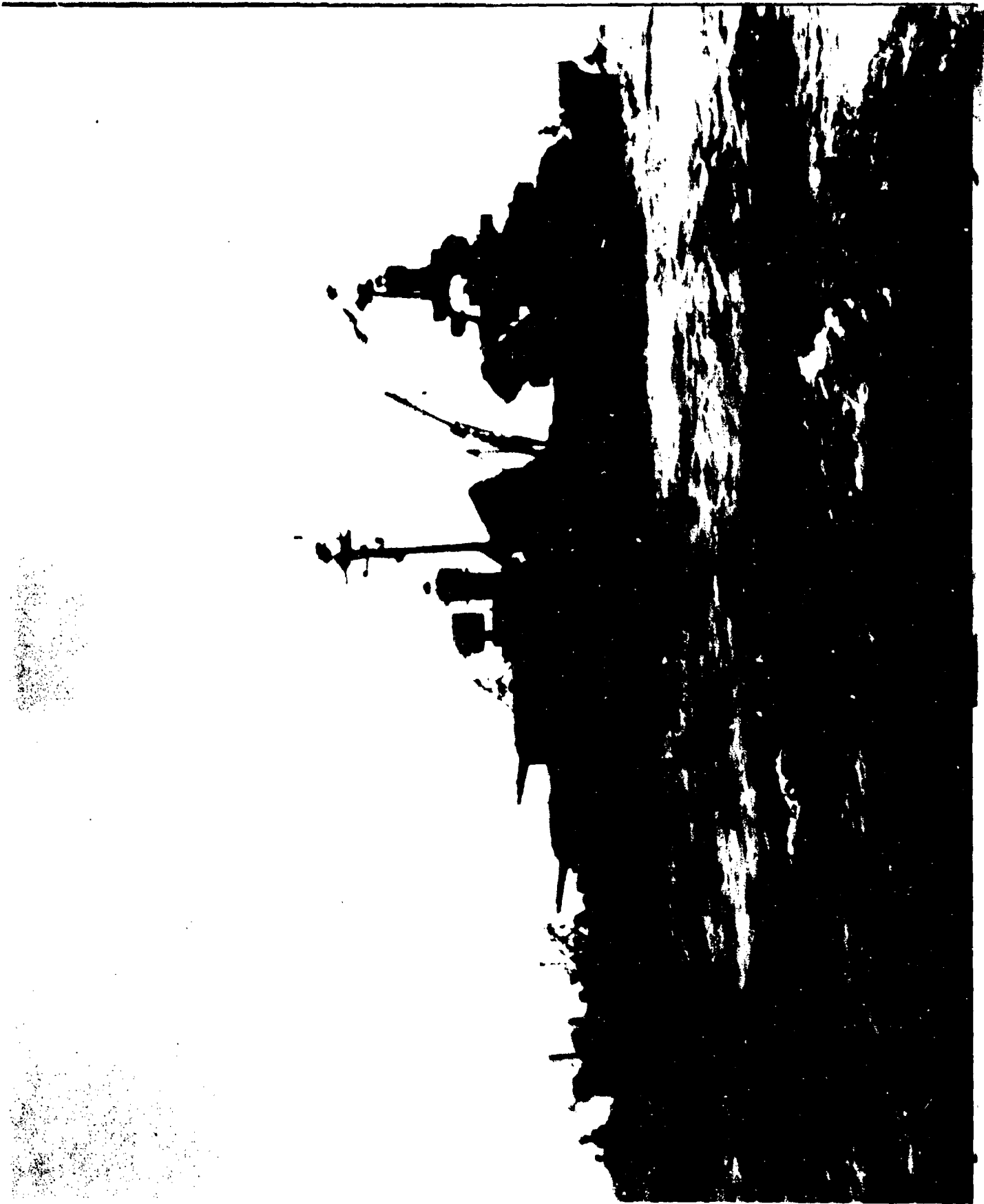
AB-CR-227-283-10. Starboard bow after Test B.

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BB-CR-227-520-116. Starboard quarter before Test B.

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AB-CR-227-283-16. Starboard quarter after Test B.

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AB-CR-175-4053-4. View of starboard side of forward superstructure taken from starboard quarter.

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AB-CR-175-4053-3. View showing starboard quarter.

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AB-CR-175-4053-5. View of after superstructure taken from starboard side, amidships.

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AB-CR-79-2957-8. Midship area from close off starboard beam.

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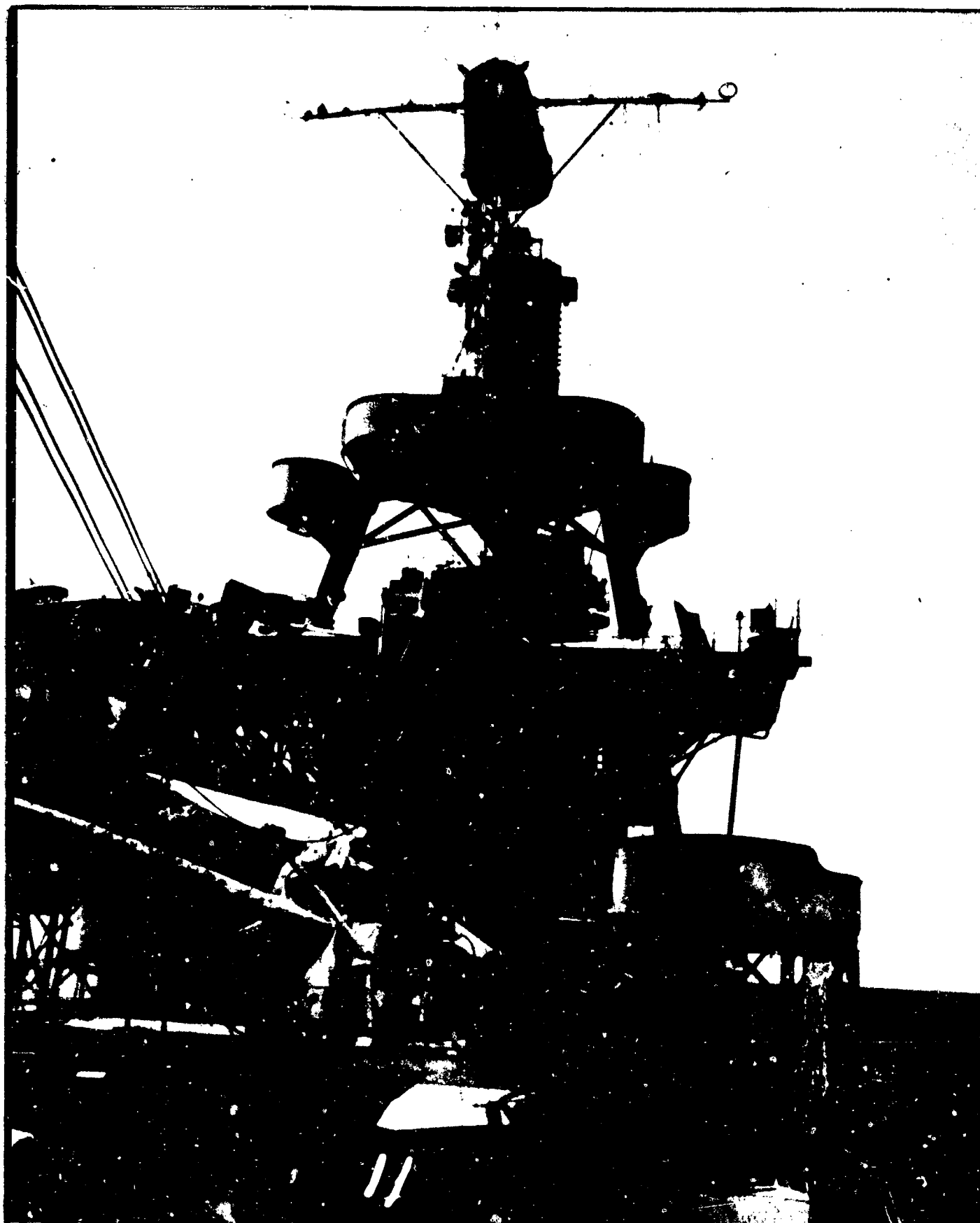
AA-CR-68-1758-4. Looking forward at forward superstructure from frame 74 starboard side.

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AB-CR-66-158-11. General view of forward superstructure from frame 75 starboard side.

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AA-CR-68-1759-6. General view, starboard navigation bridge level from frame 48 port.

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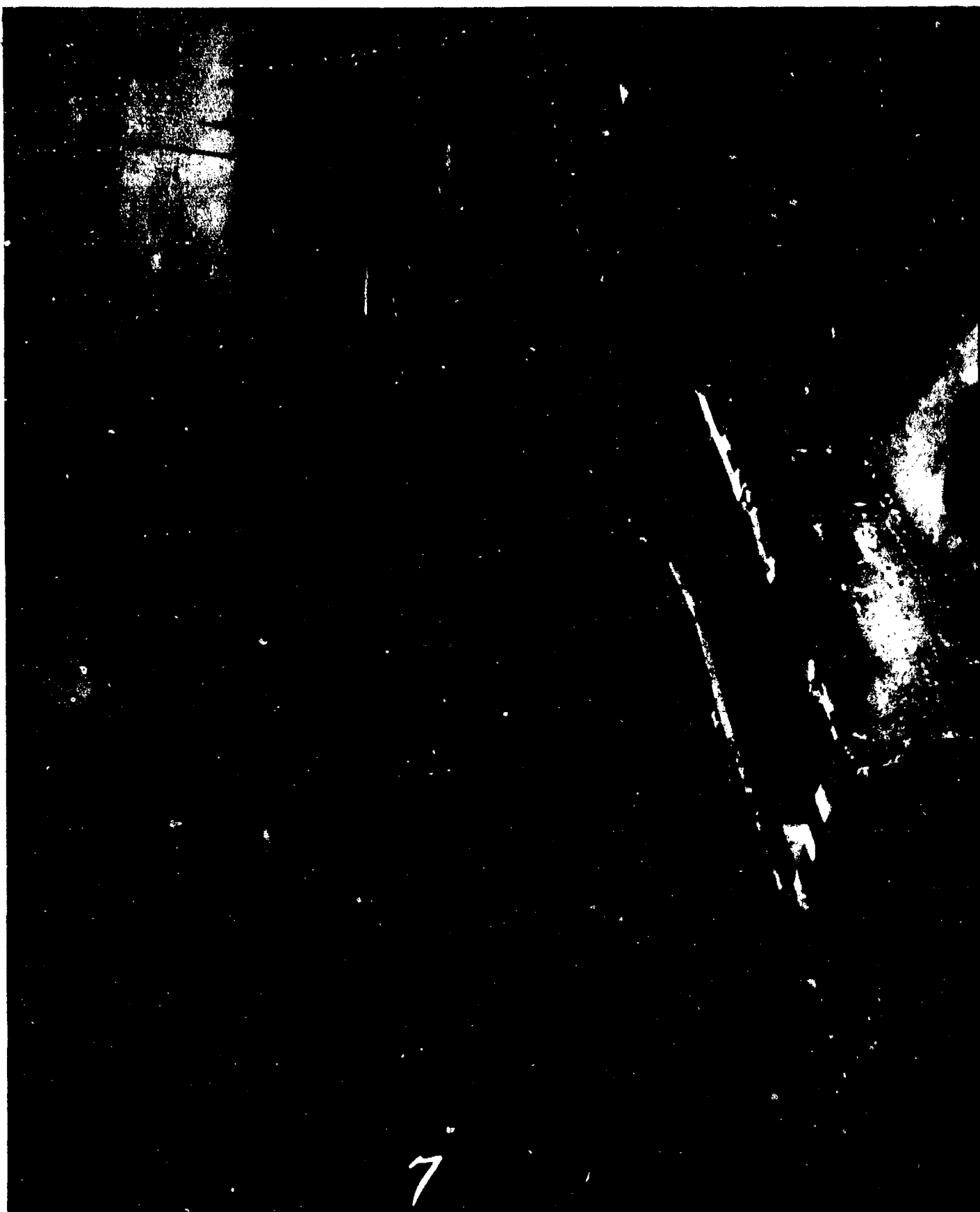
AB-CR-66-157-11. General view, starboard Navigation bridge level, looking to starboard.

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AB-CR-66-157-7. After portion, fire control level, looking to starboard.

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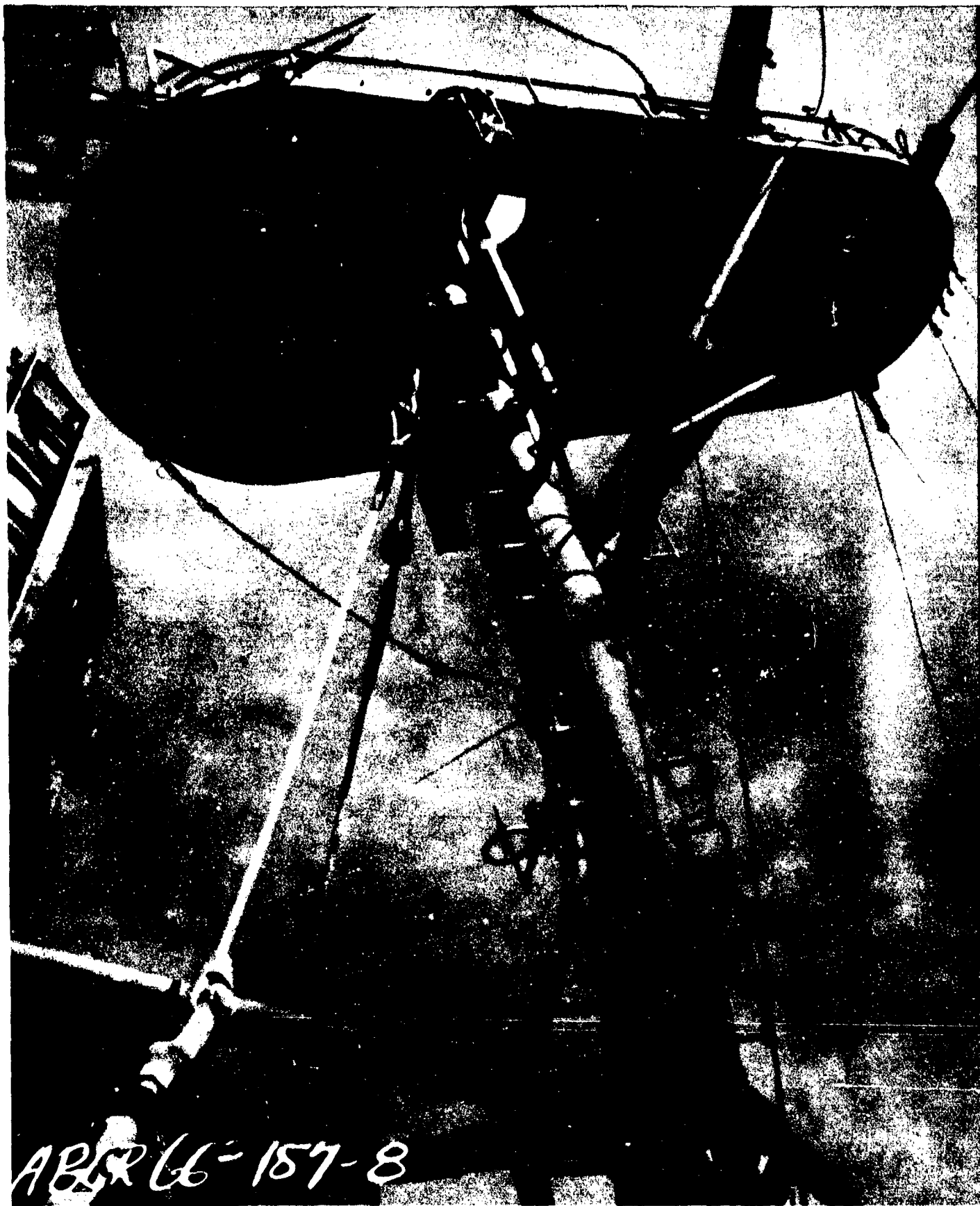
AB-CR-79-2959-4. Forward superstructure from port bow, note collapsed fore topmast. (see AA-1832-2)

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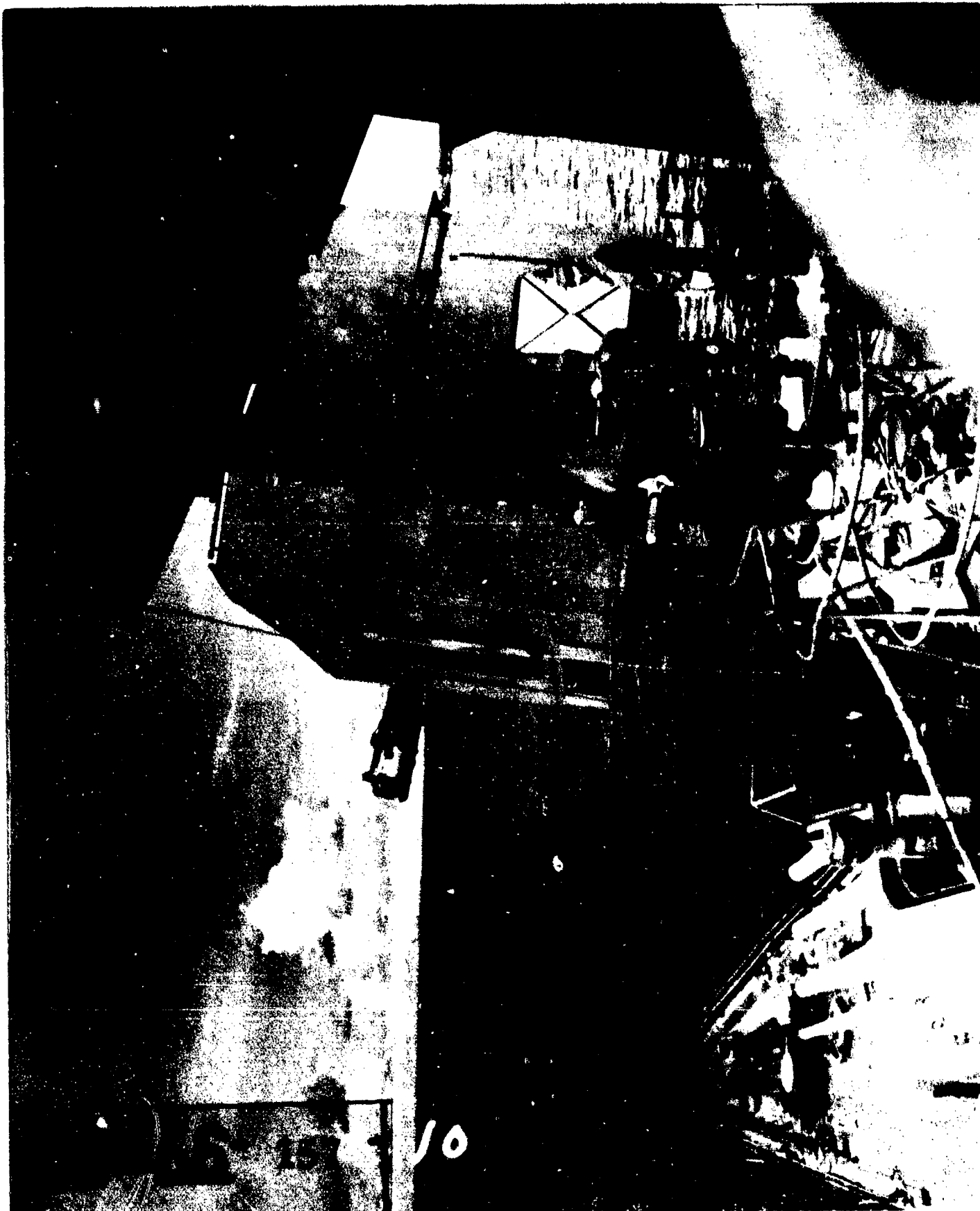
AB-CR-66-157-8. Forward radar polemast after test Baker showing platform and riggings.

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AB-CR-66-157-10. View of mark 33 director from frame 48, port side.

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AB-CR-66-158-1. After port sector of underside of mark 33 director -
damage to base ring.

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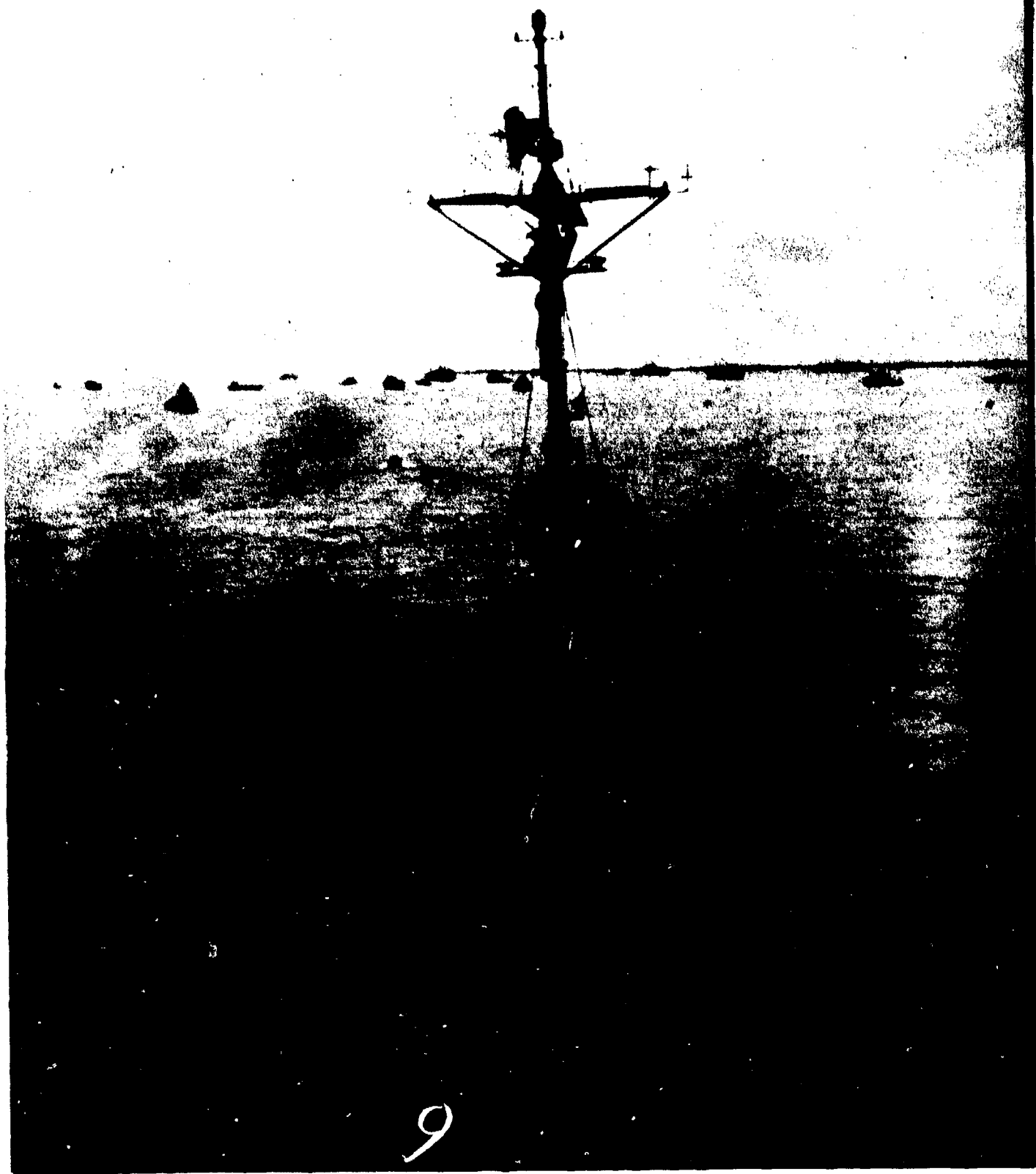
AB-CR-66-158-2. Forward port sector of mark 33 director.

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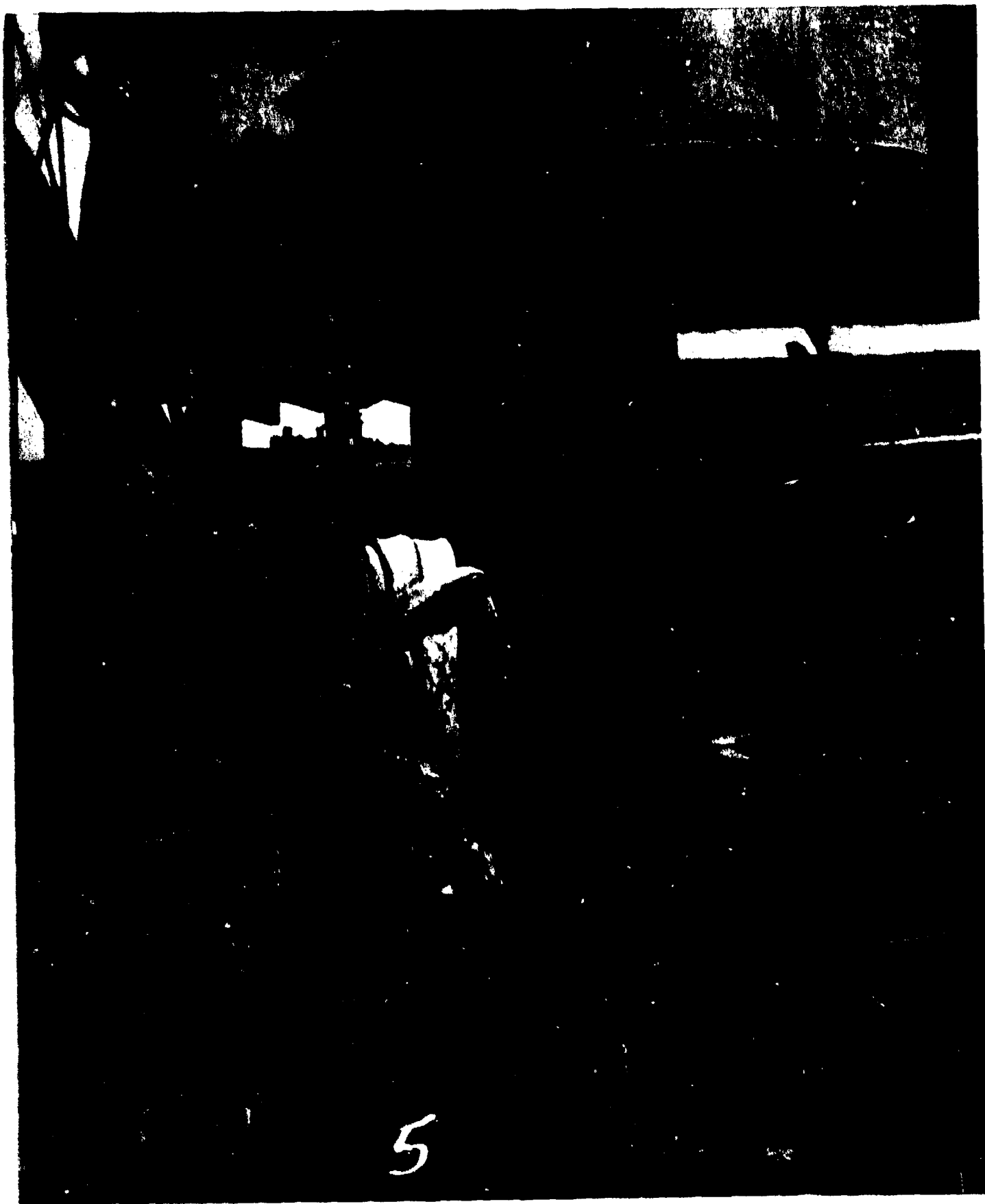
AB-CR-66-157-9. View of mainmast from forward fire control level.

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AB-CR-66-155-5. Foot of port strut to mainmast after test Baker.

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AB-CR-80-4178-12. Midships area of main deck, looking down and forward, from starboard, at about frame 73 (see 4179-1).

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AB-CR-80-1676-7. Mount #1 - outside view - left side - showing damage to weather seal at top of deck casting.

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AB-CR-80-1676-6. Mount #1 - outside view - right side - showing damage to weather seal at top of deck casting.

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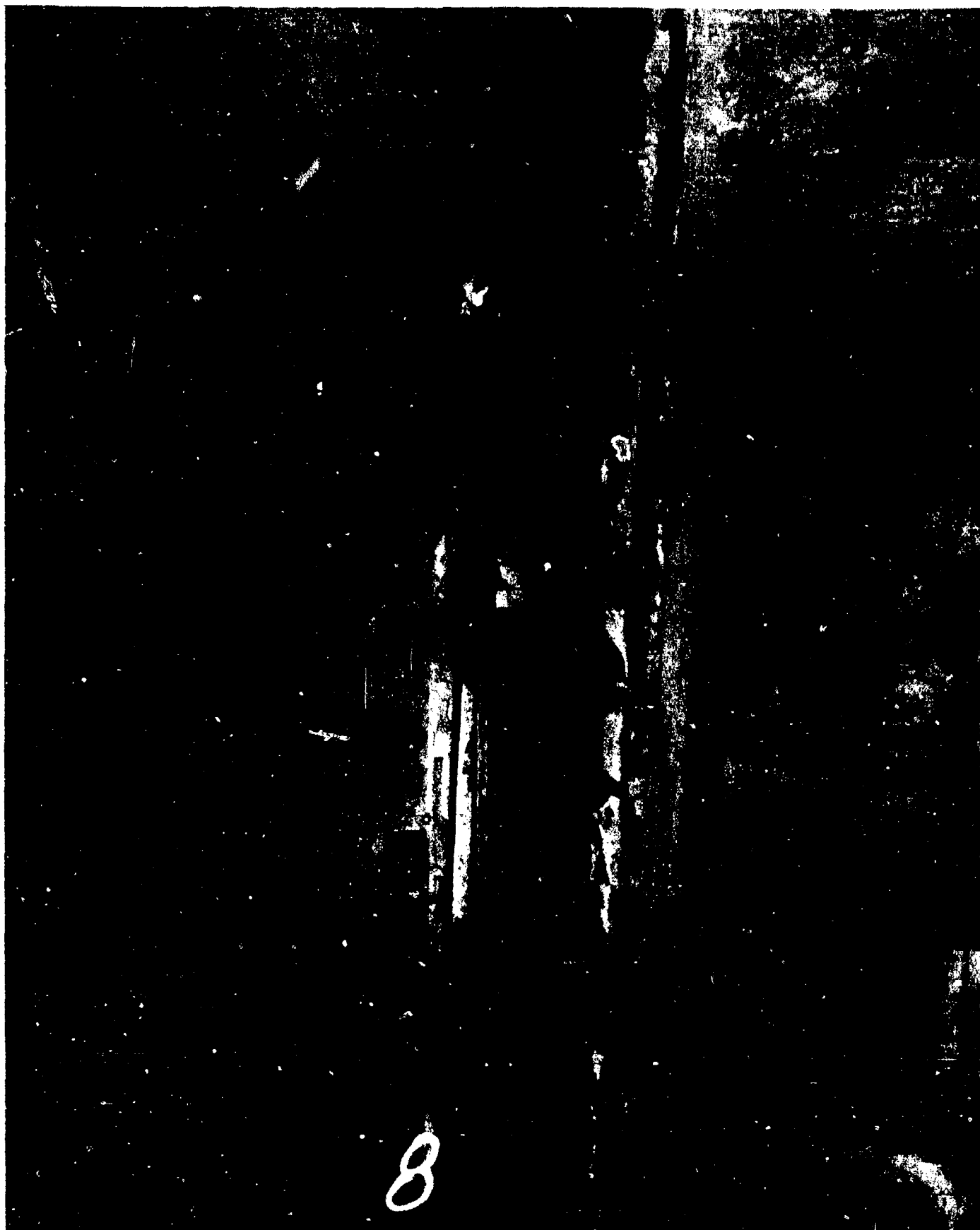
AB-CR-80-1676-8. Mount #1 - outside view - left front quarter - showing damage to weather seal at top of deck casting.

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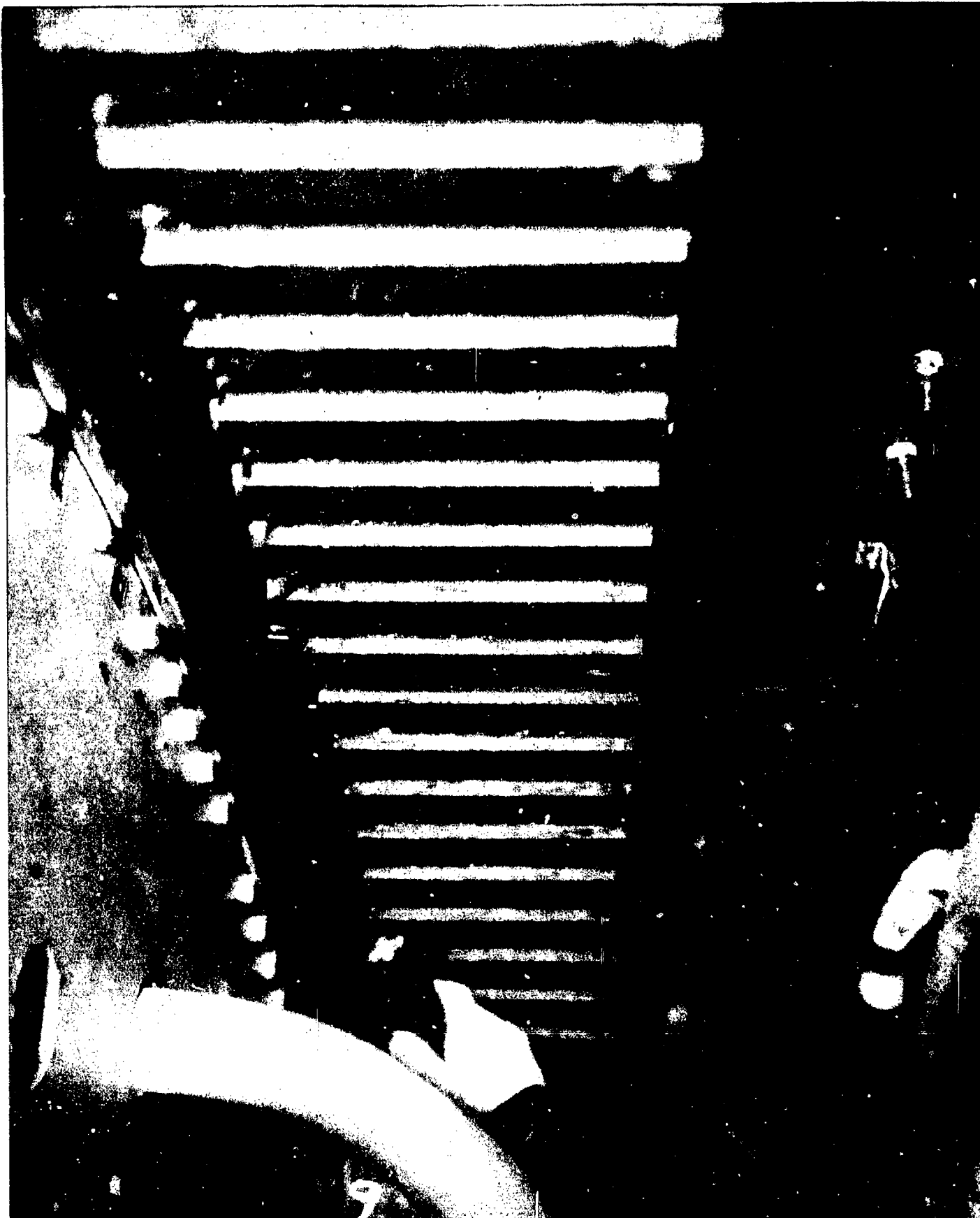
AB-CR-66-158-8. Base ring of No. 1 mount - looking to starboard.

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AB-CR-80-1676-9. Mount #1 - training race - left side - looking to rear - showing ball bearings and retainer out of place.

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AB-CR-80-1676-11. Mount #1 - training race - left side just off front center-line - looking to front - showing ball bearings and retainer out of place.

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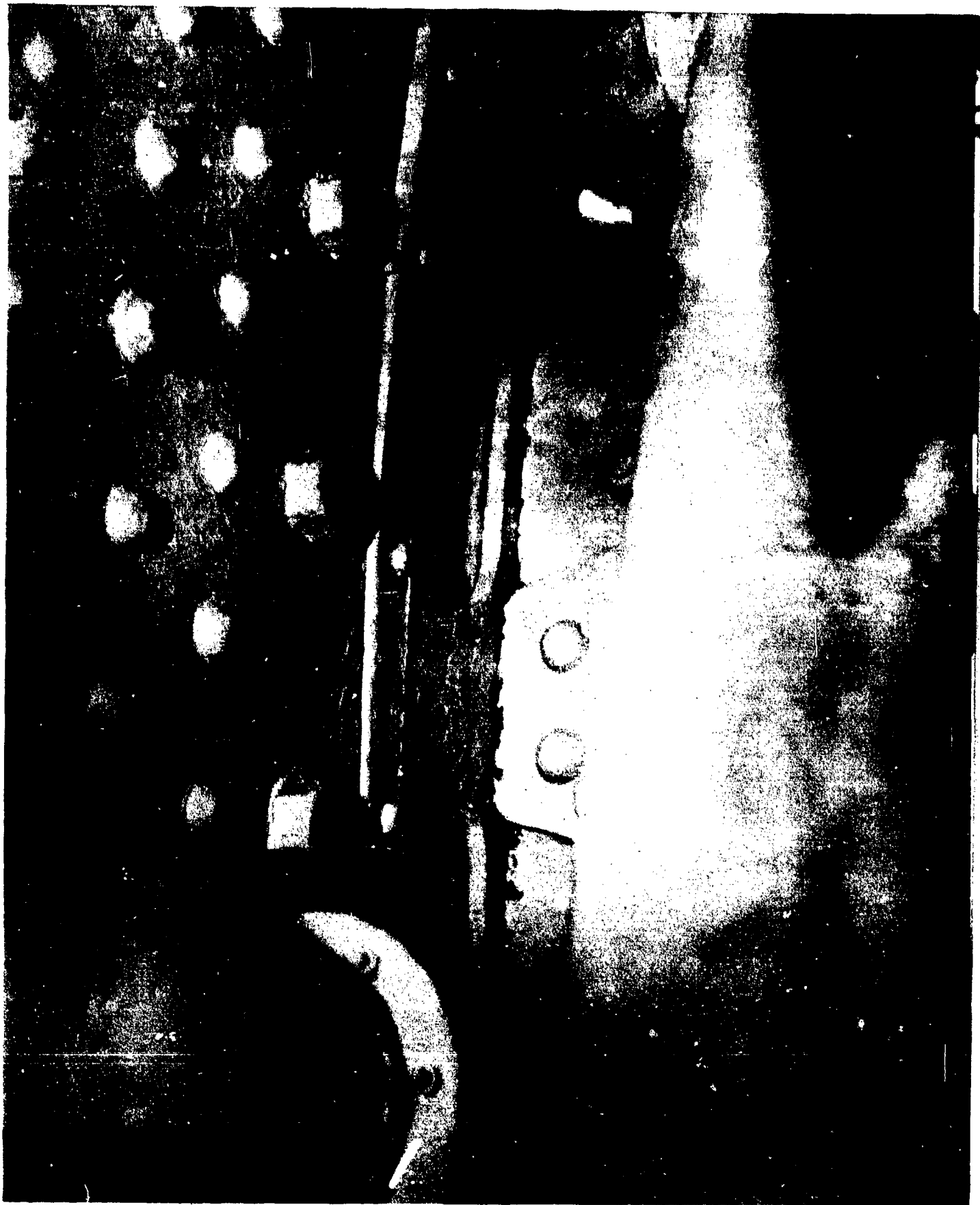
AB-CR-80-1676-10. Mount #1 - training race - left side looking to front - showing ball bearings and retainer out of place.

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AB-CR-76-2079-1. A-203-1L. Looking upward and aft at connection of main deck to #1 barrette at frame 20, just to starboard of centerline, showing cracked paint resulting from slight relative movement of connected members.

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AB-CR-66-158-4. Mount No. 2 - looking forward and to starboard at base ring.

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AB-CR-97-1684-2. 8" Mount 2 - Thrust bearing and weather seal.
Rear right quarter.

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AB-CR-97-1684-3. 8" Mount 2 - Thrust bearing and weather seal.
Rear right quarter.

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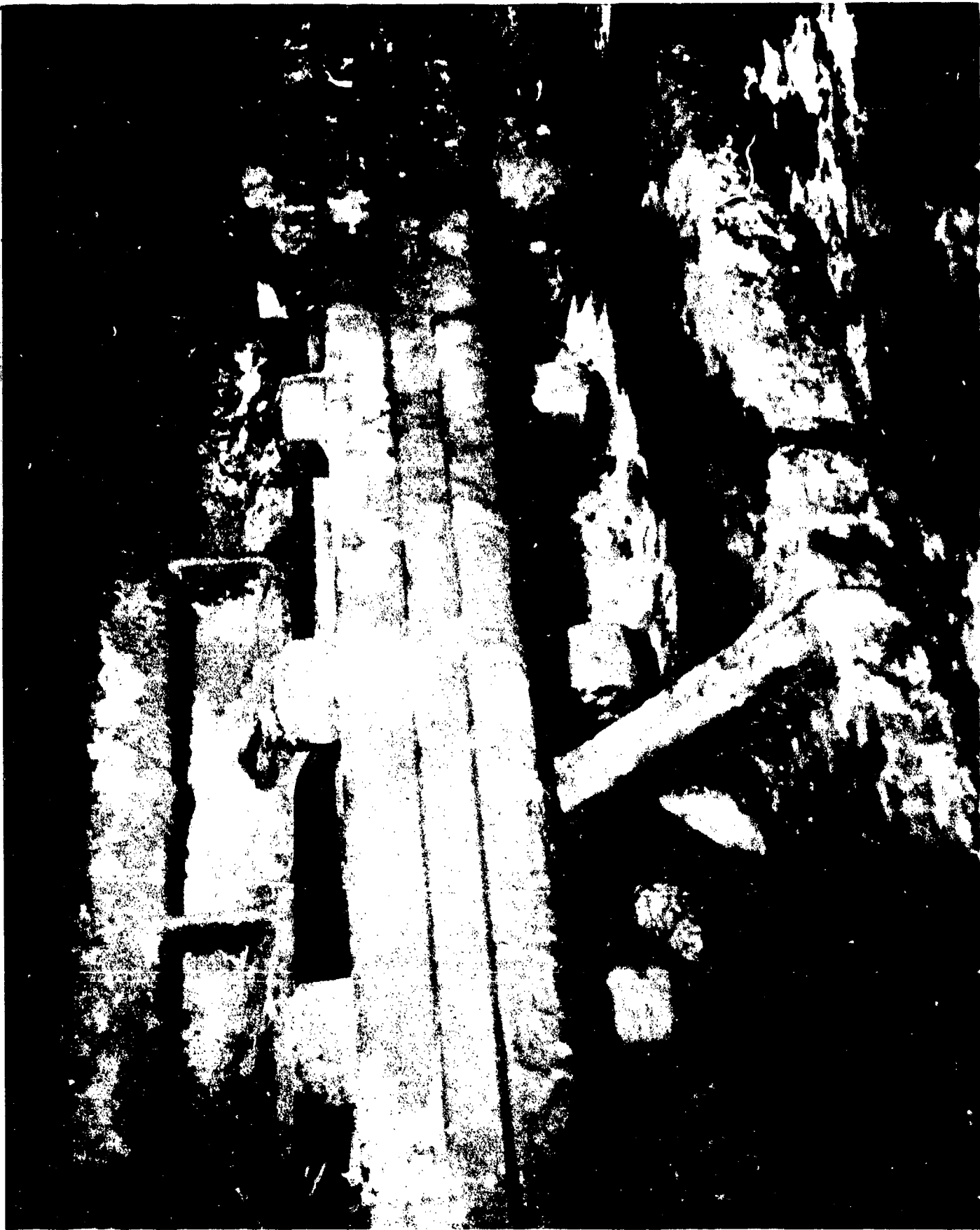
AB-CR-97-1684-4. 8" Mount 2 - Thrust bearing and weather seal.
Right side.

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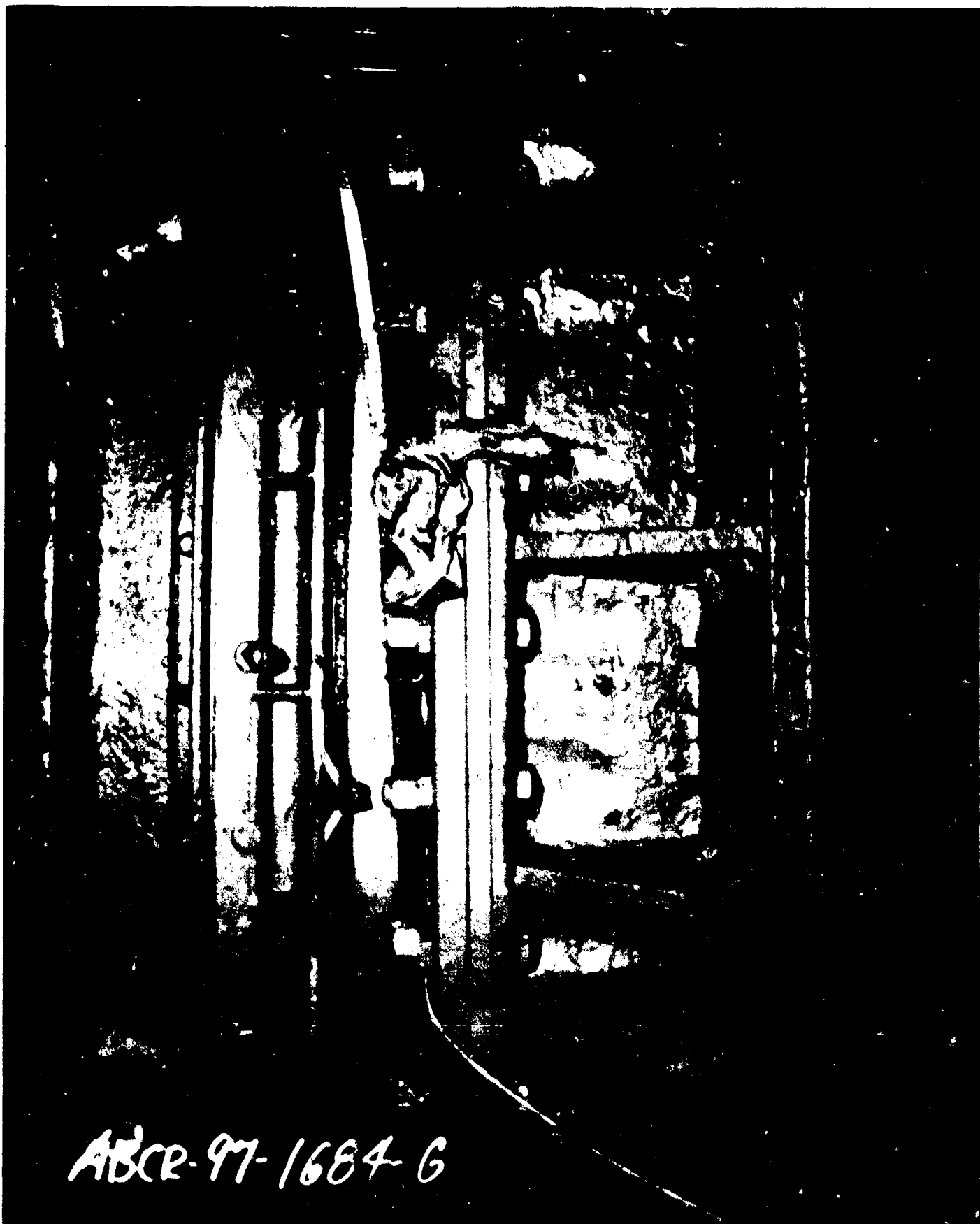
AB-CR-97-1684-5. 8" Mount 2 - Thrust bearing and weather seal.
Front.

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AB-CR-97-1684-6. 8" Mount 2 - Thrust bearing and weather seal.
Rear.

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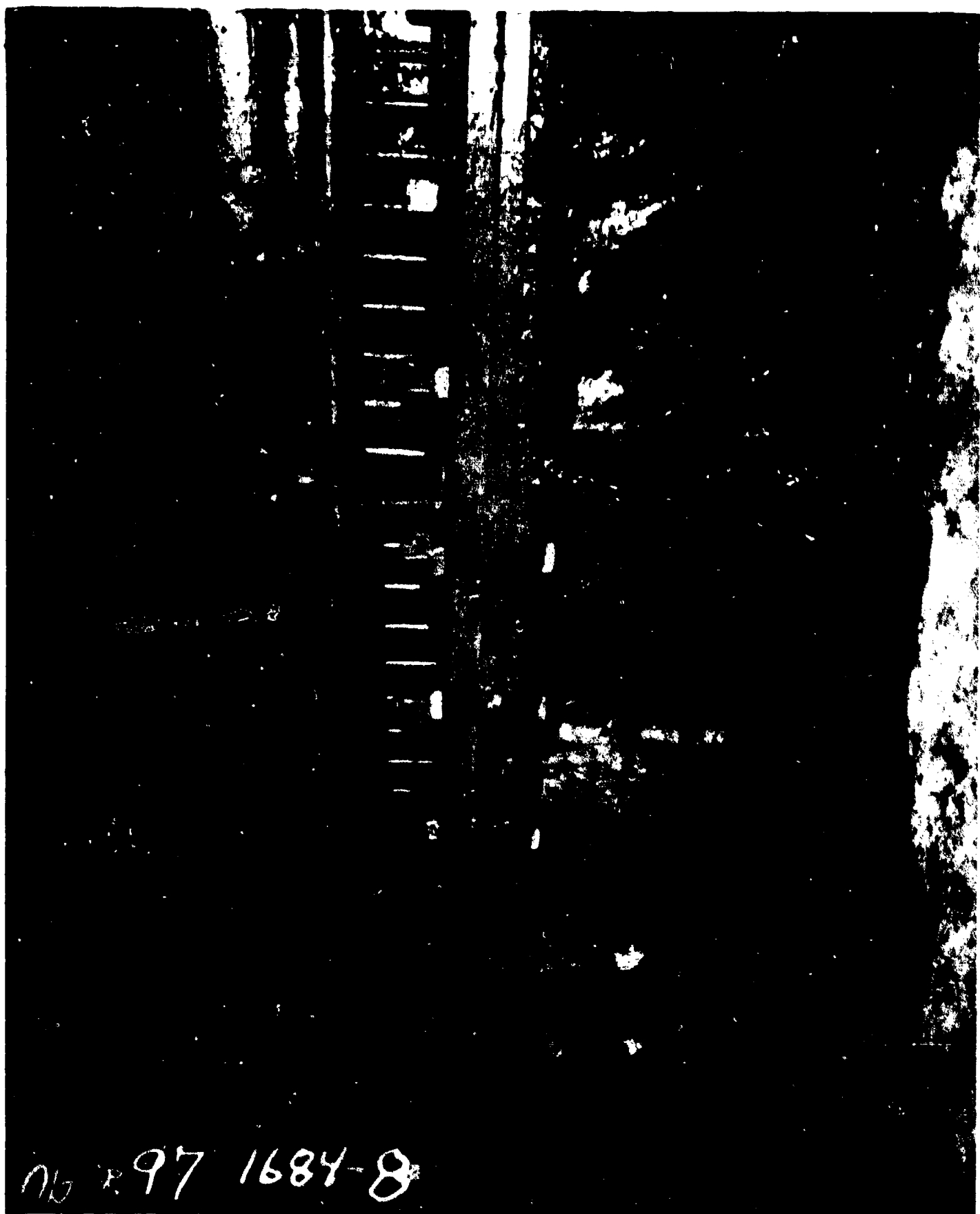
AB-CR-97-1684-7. 8" Mount 2 - Thrust bearing and weather seal.
Rear.

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AB-CR-97-1684-8. 8" Mount 2 - Thrust bearing and weather seal.
Rear left quarter.

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AB-CR-97-1684-9. 8" Mount 2 - Thrust bearing and weather seal.
Rear left quarter.

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AB-CR-97-1684-10. 8" Mount 2 - Thrust bearing and weather seal.
Front right quarter.

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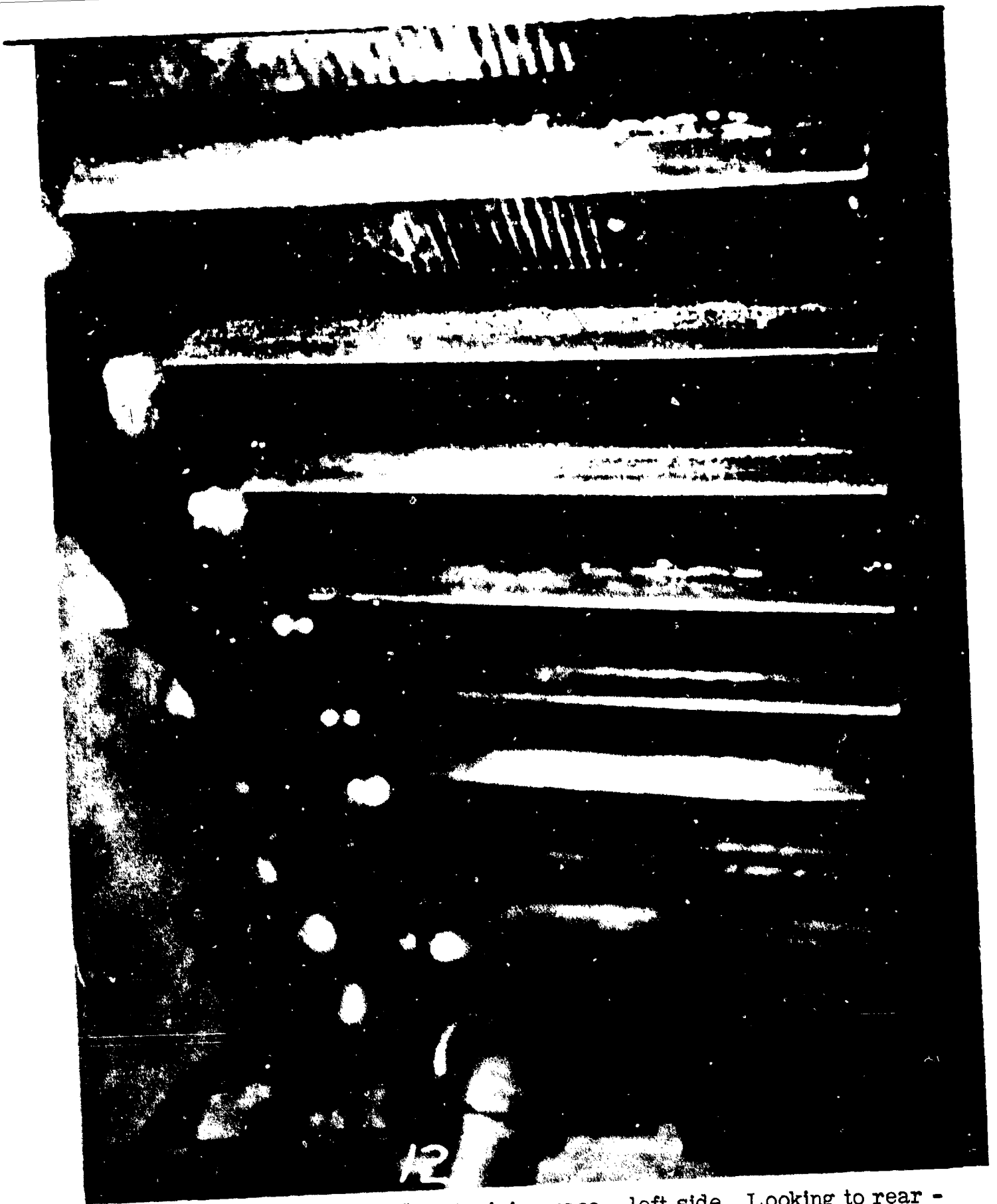
AB-CR-97-1684-11. 8'' Mount 2 - Thrust bearing and weather seal.
Front left quarter.

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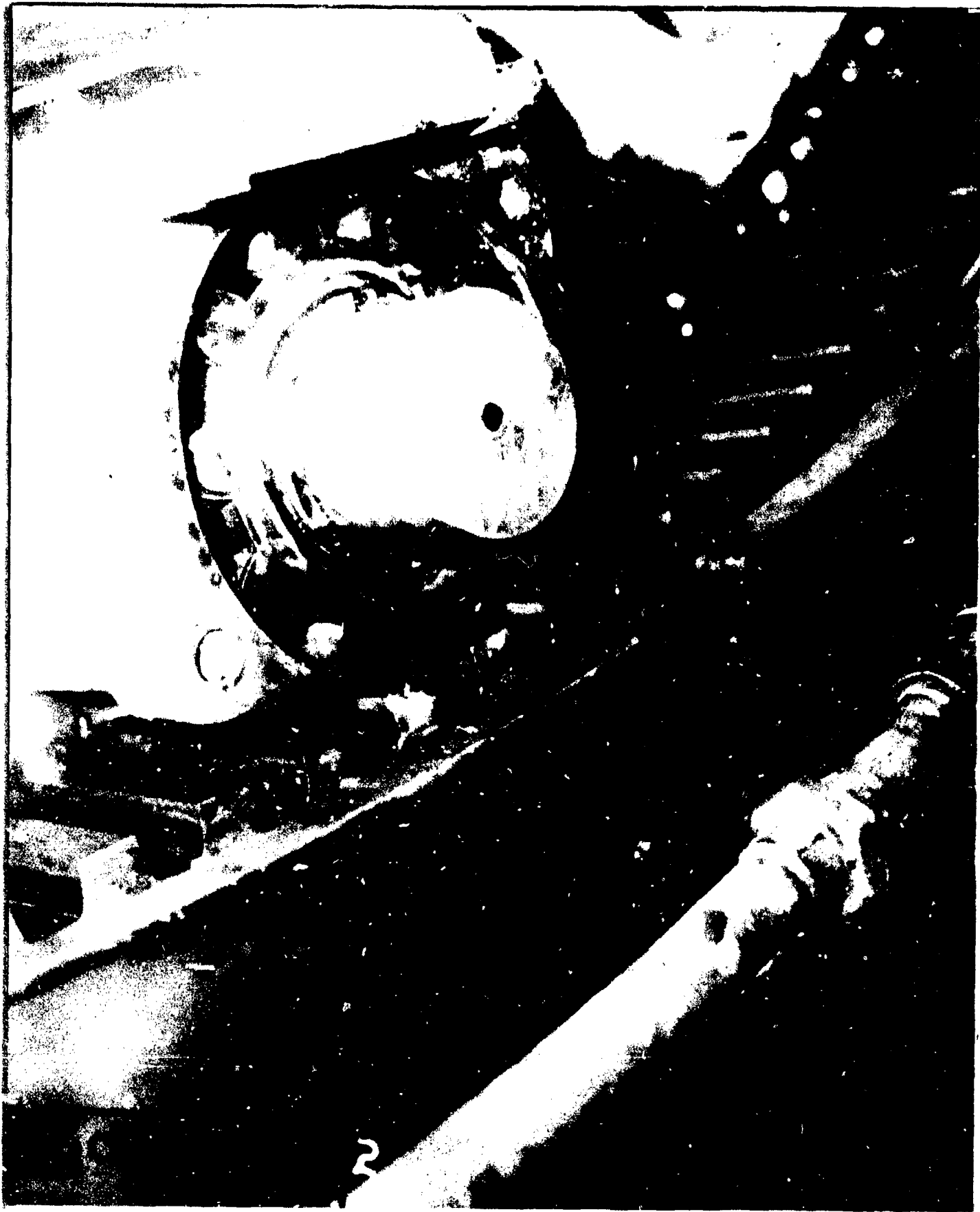
AB-CR-80-1676-12. Mount #2 - training race - left side. Looking to rear - showing ball bearings and retainers out of place.

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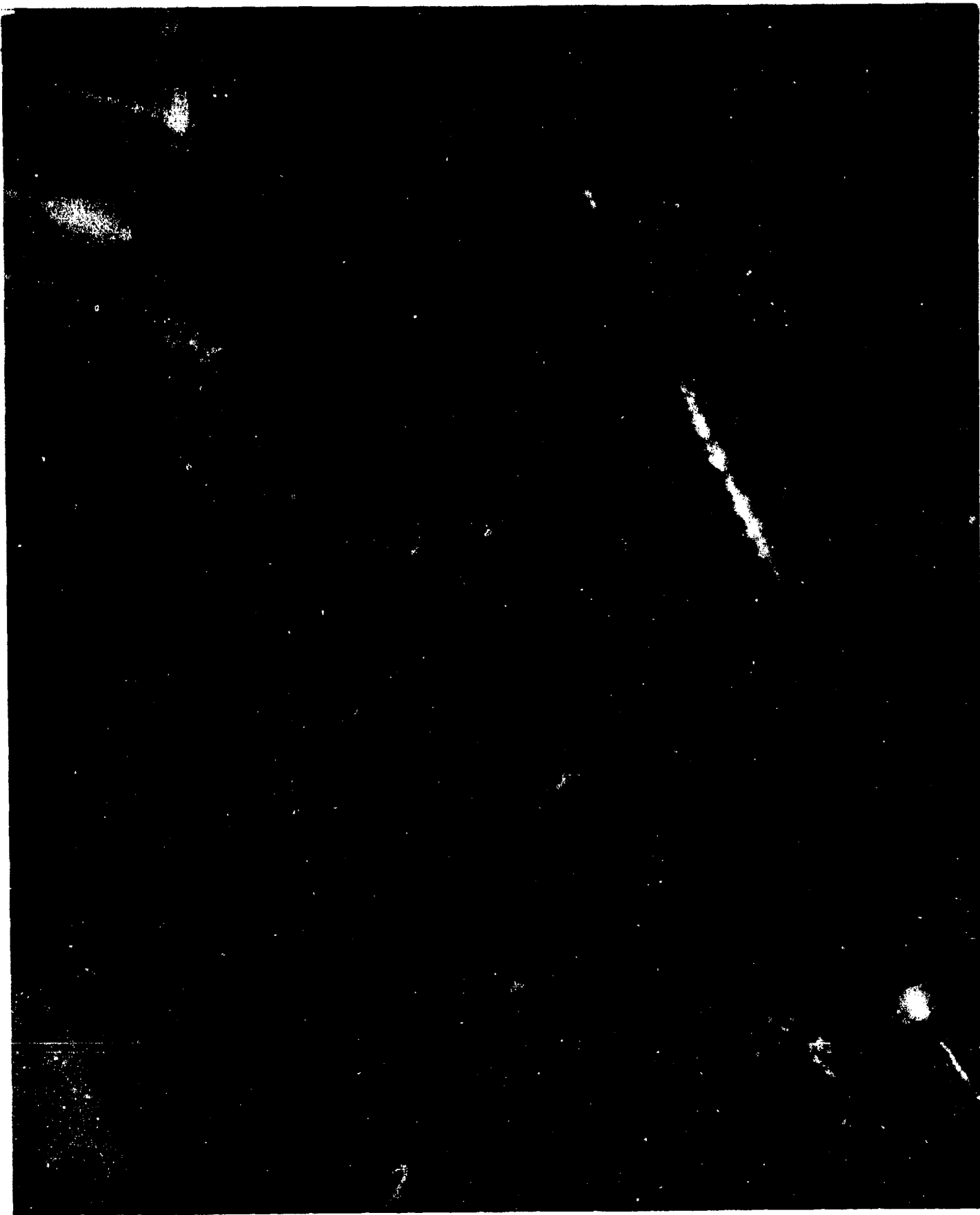
AB-CR-80-1377-2. Mount #2 - training pinion - view from under side - showing how teeth have unmeshed from teeth on rack. Notice that lower portion of housing is missing.

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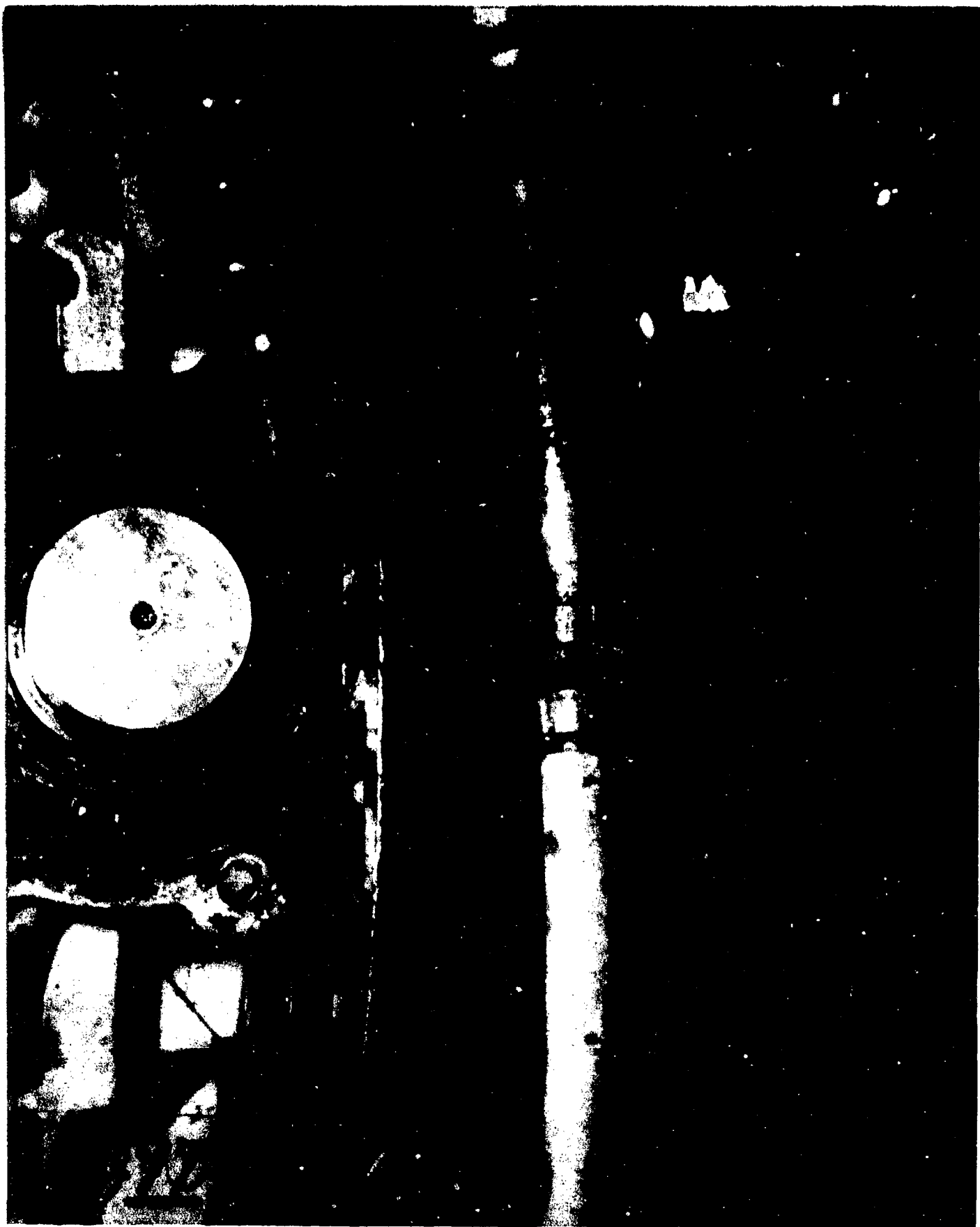
AB-CR-80-1678-2. 8" Mount 2 - Projectile flat - Showing lower casting of training pinion laying on deck.

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AB-CR-97-1685-1. 8" Mount 2 - Training pinion - bottom view.

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AB-CR-80-1677-8. Mount #2 - training race - left side - looking to left and front - showing ball bearings out of place.

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AB-CR-80-1677-1. Mount #2 - training race - left side looking to left - showing ball bearings and retainer out of place.

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AB-CR-80-1677-4. Mount #2 training race - looking to front to right of centerline - showing ball bearings and retainer out of place.

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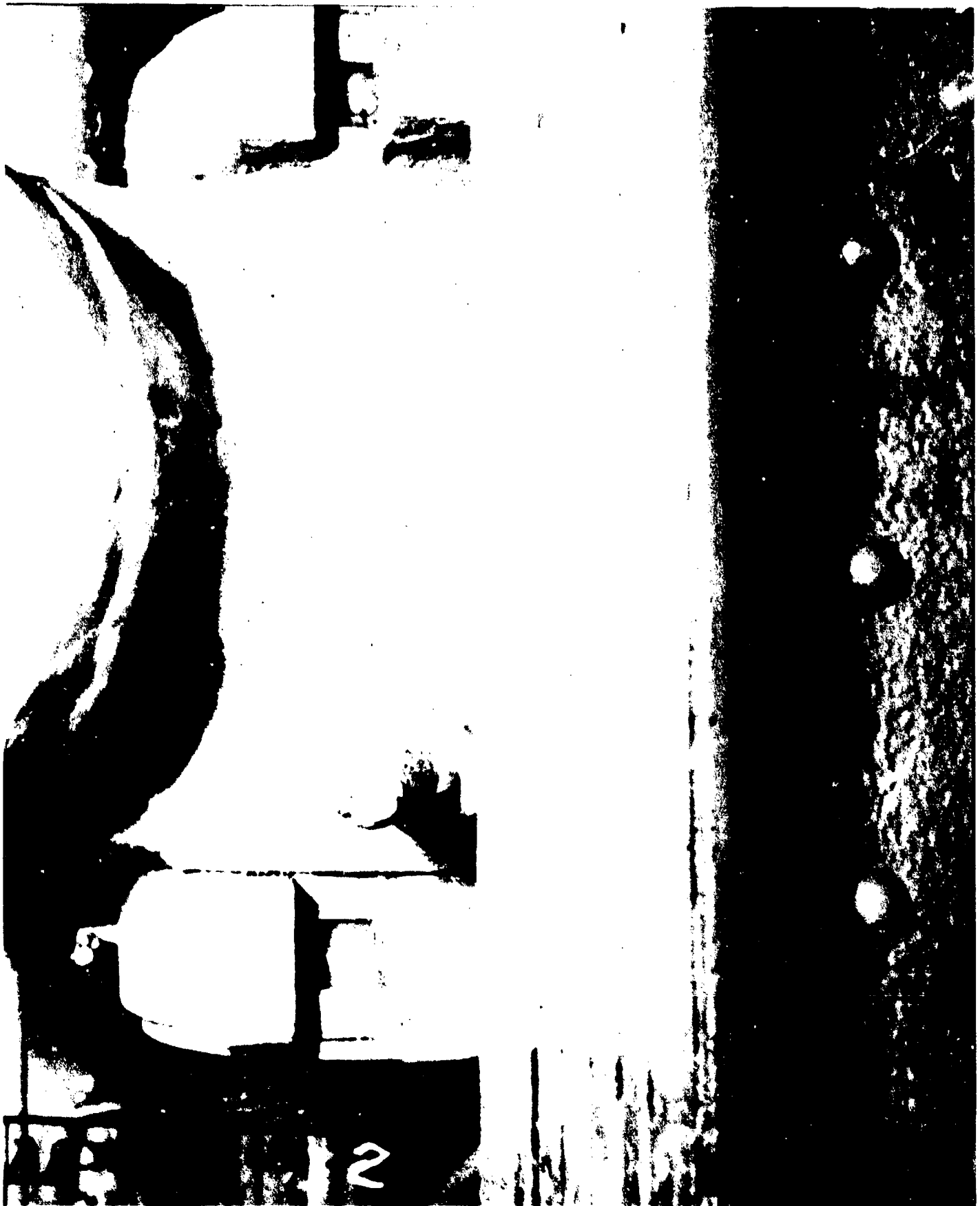
AB-CR-80-1677-3. Mount #2 - training race - right front quarter - looking to right - showing ball bearings and retainer out of place.

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AB-CR-97-1686-2. 8" Mount 1 - Elevating nut housing trunnion cap squares - showing sheared bolts.

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AB-CR-97-1686-3. 8" Mount 1 - Shaft coupling of "B" end to elevating nut.

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AB-CR-97-1686-5. 8" Mount 1 - Left powder hoist trunk - Upper level in gun chamber - Showing spring and rivets missing.

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AB-CR-97-1686-8. 8'' Mount 1 - Training gear housing - Showing missing bolt which failed in tension.

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AB CR 97-1685-

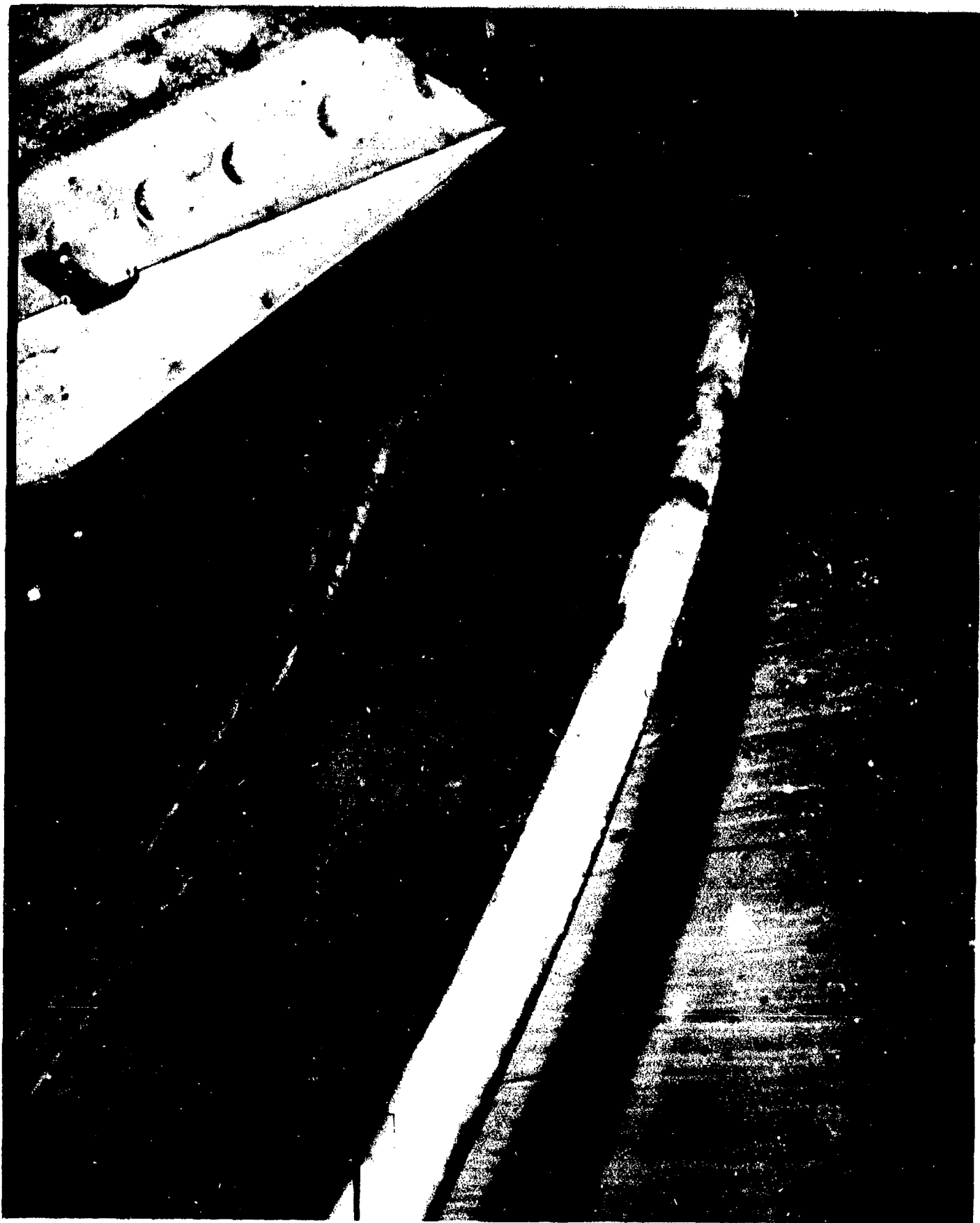
AB-CR-97-1685-7, 8" Mount 2 - Front section of training rack. Showing support flange sheared by training rack.

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AB-CR-97-1685-6. 8" Mount 2 - Front section of training rack. Showing support flange sheared by training rack.

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AB-CR-80-1678-5. Mount #2 - rotating projectile flat - rear edge - looking to front - showing upward misalignment of 4-1/8''.

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AB-CR-80-1677-11. Mount #2 - powder circle tray - right front quarter - looking to right showing powder circle tray jammed against circular foundation bulkhead of mount. Notice ball bearings from training race that have fallen into tray.

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AB-CR-80-1677-9. Mount #2 - powder circle tray left front quarter - looking toward centerline showing excessive clearance between powder circle tray and circular foundation bulkhead of mount.

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AB-CR-80-1677-7. Mount #2 - powder circle flat - rear portion to left of centerline - looking to rear - showing buckling of deck and damage to attachment of deck to circular support for powder circle tray.

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AB-CR-80-1677-6. Mount #2 - Powder circle flat - Rear portion to left of centerline - looking to left - showing buckling of deck and damage to attachment of deck to circular support for powder circle tray.

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1677-5
AB-CR-80-1677-5. Mount #2 - powder circle flat - gear portion to right of centerline - looking to right - showing buckling of deck and damage to attachment of deck to circular support for powder circle tray.

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AB-CR-97-1685-2. 8'' Mount 2 - Powder circle flat - front - looking to front.

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AB-CR-97-1685-10. 8" Mount 2 - Crushed powder hoist and tray - left side.

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AB-CR-80-1678-9. Mount #2 - underside of powder circle flat - rear portion - looking to rear showing misalignment of edge of flat (not in view) of about 10 1/2".

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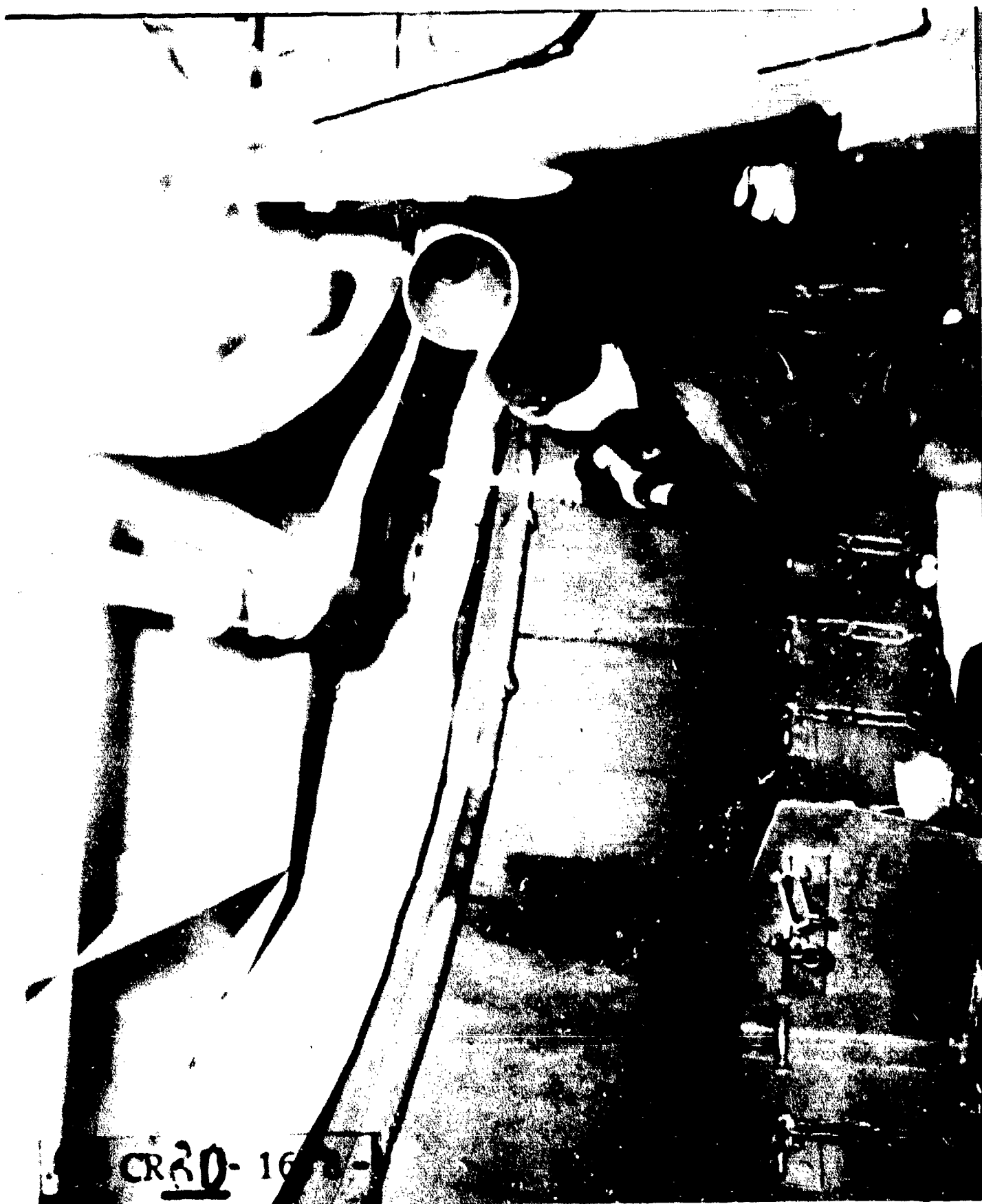
AB-CR-80-1678-8. Mount #2 - underside of powder circle flat - right side - looking to right showing misalignment of about 6 3/4", distortion of flat and damage to seal.

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AB-CR-80-1678-7. Mount #2 - underside of powder circle flat - left rear quarter - looking to rear - showing misalignment of about 10 1/2" in elevation, distortion of flat and damage to seal.

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AB-CR-80-1678-3. Mount #2 - underside of powder circle flat - front portion - looking to front - showing distortion of platform and damage to seal.

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AB-CR-97-1687-1. 8" Mount 3 - Weather seal - Right side.

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ABCR-97-1687-2

AB-CR-97-1687-2. 8" Mount 3 - Weather seal - Front.

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ABCR97 - 1687

AB-CR-97-1687-3. 8" Mount 3 - Weather seal - left side.

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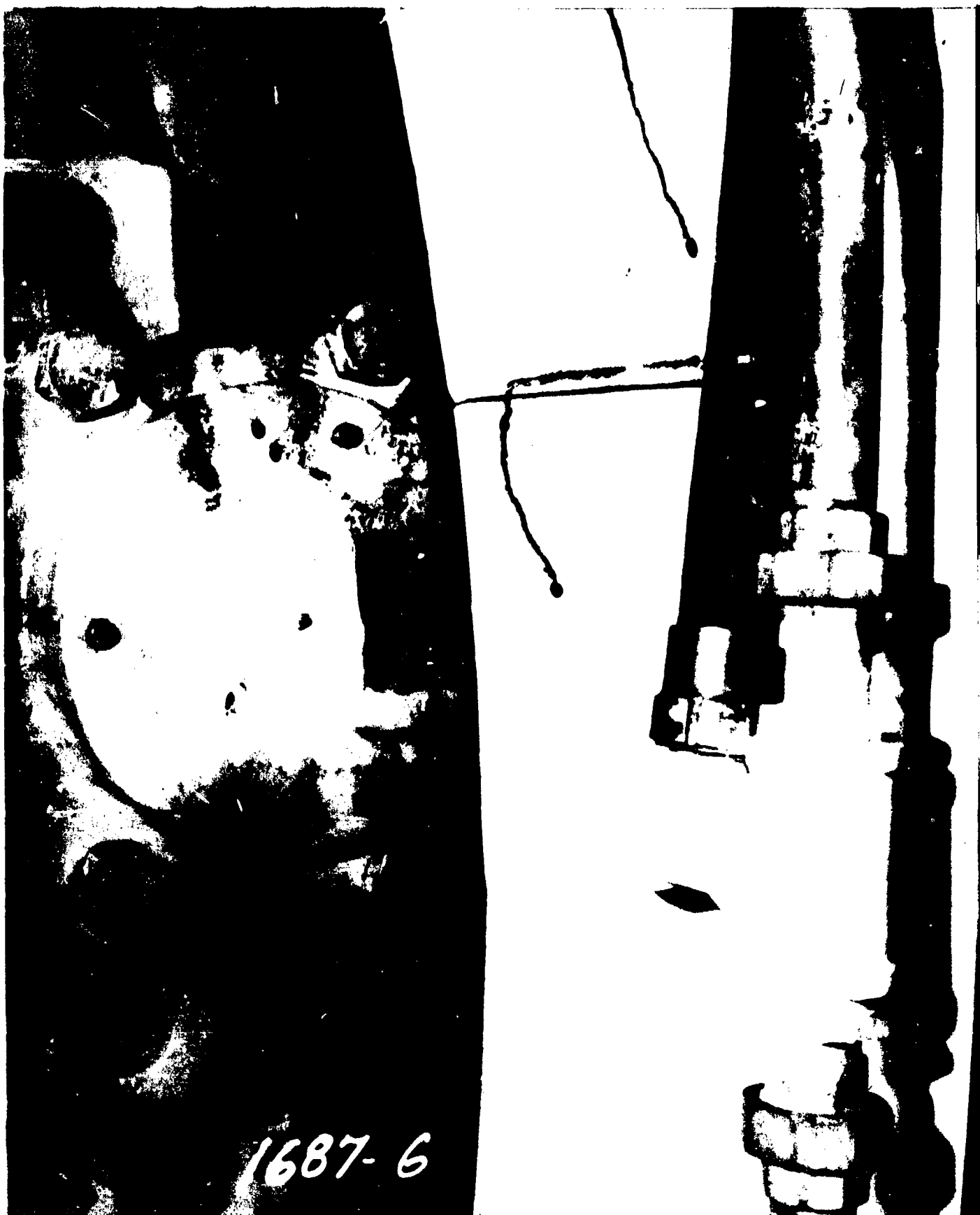
AB-CR-97-1687-4. 8" Mount 3 - Training pinion housing and training rack.

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AB-CR-97-1687-6. 8" Mount 3 - Training pinion housing and training rack.

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AB-CR-97-1687-5. 8" Mount 3 - Training rack - Showing section in way of pinion housing which was forced upward.

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ABCR97 - 1687

AB-CR-97-1687-9. 8" Mount 4 - Ball bearings and spacer - Rear section on starboard side.

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AB-CR-97-1687-8. 8'' Mount 4 - Training pinion housing.

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AB-CR-80-1677-12. 8" Mount 2 - Projectile flat - Showing disarrangement of projectiles and displacement of rotating flat.

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AB-CR-80-1678-1. 8" Mount 2 - Projectile flat - Showing disarrangement of projectiles and displacement of rotating flat.

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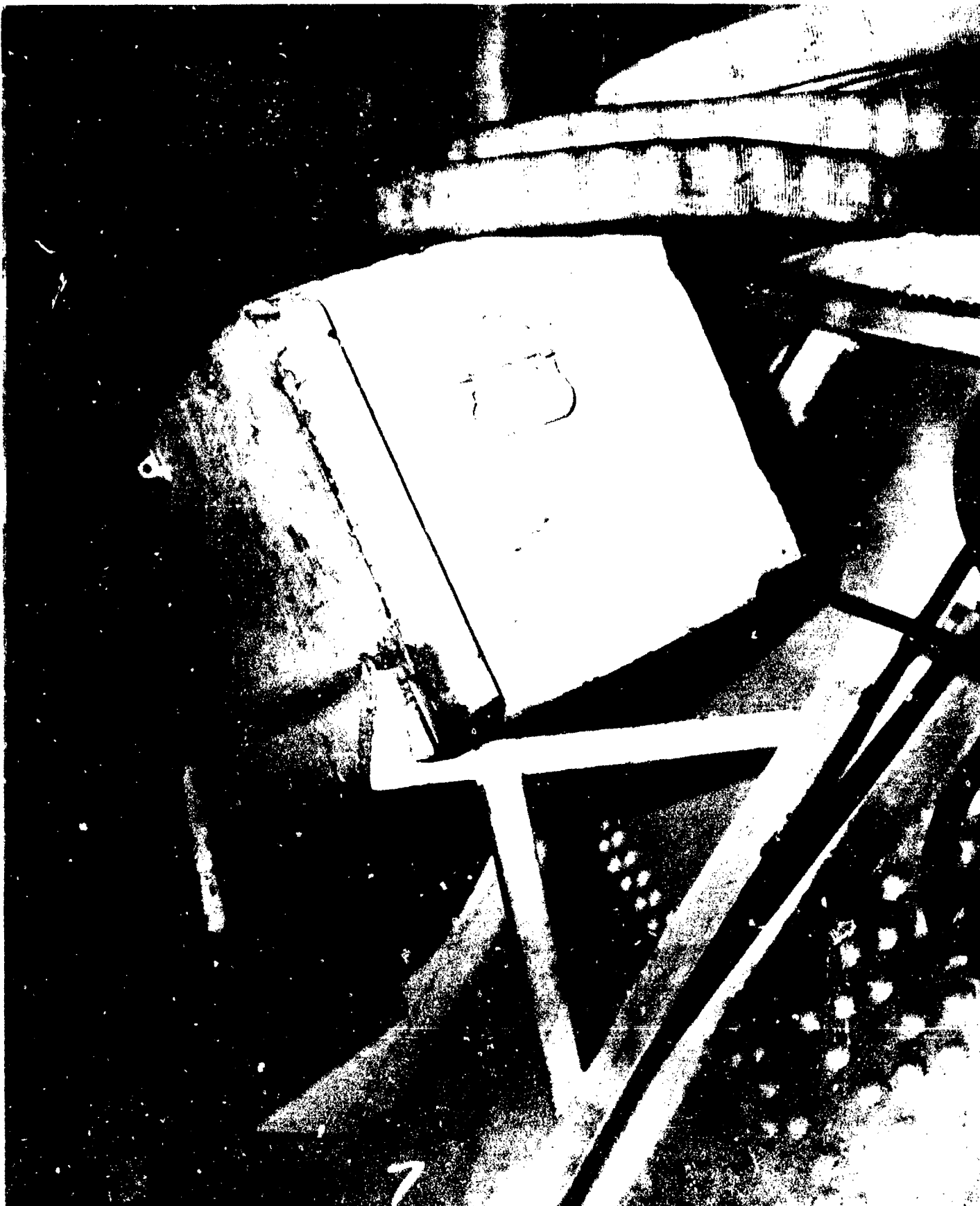
AB-CR-66-158-10. General view of wardroom - looking to starboard.

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AB-CR-76-2078-7. Windlass room, A-202-E. Heater unit stowage box dislodged from foundation.

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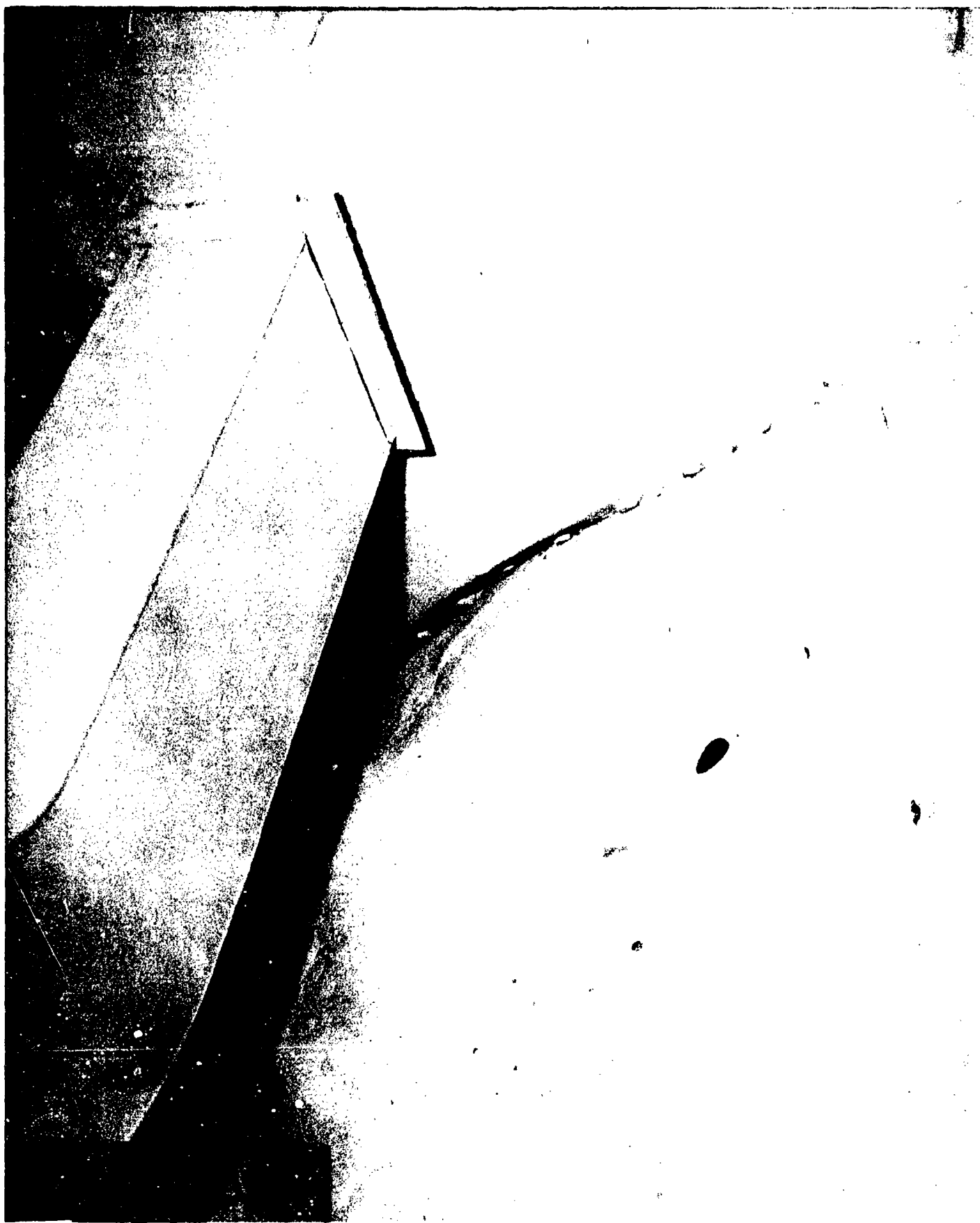
AB-CR-76-2078-8. Windlass room. A202E. Looking aft at bulkhead 10 to port of centerline, showing damage to web of bulkhead stiffener and longitudinal girder and dislocation of reach rod Bevel gear.

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AB-CR-76-2078-10. A-2031L. Looking outboard and aft at buckle near shell in bulkhead 15, starboard, under main deck.

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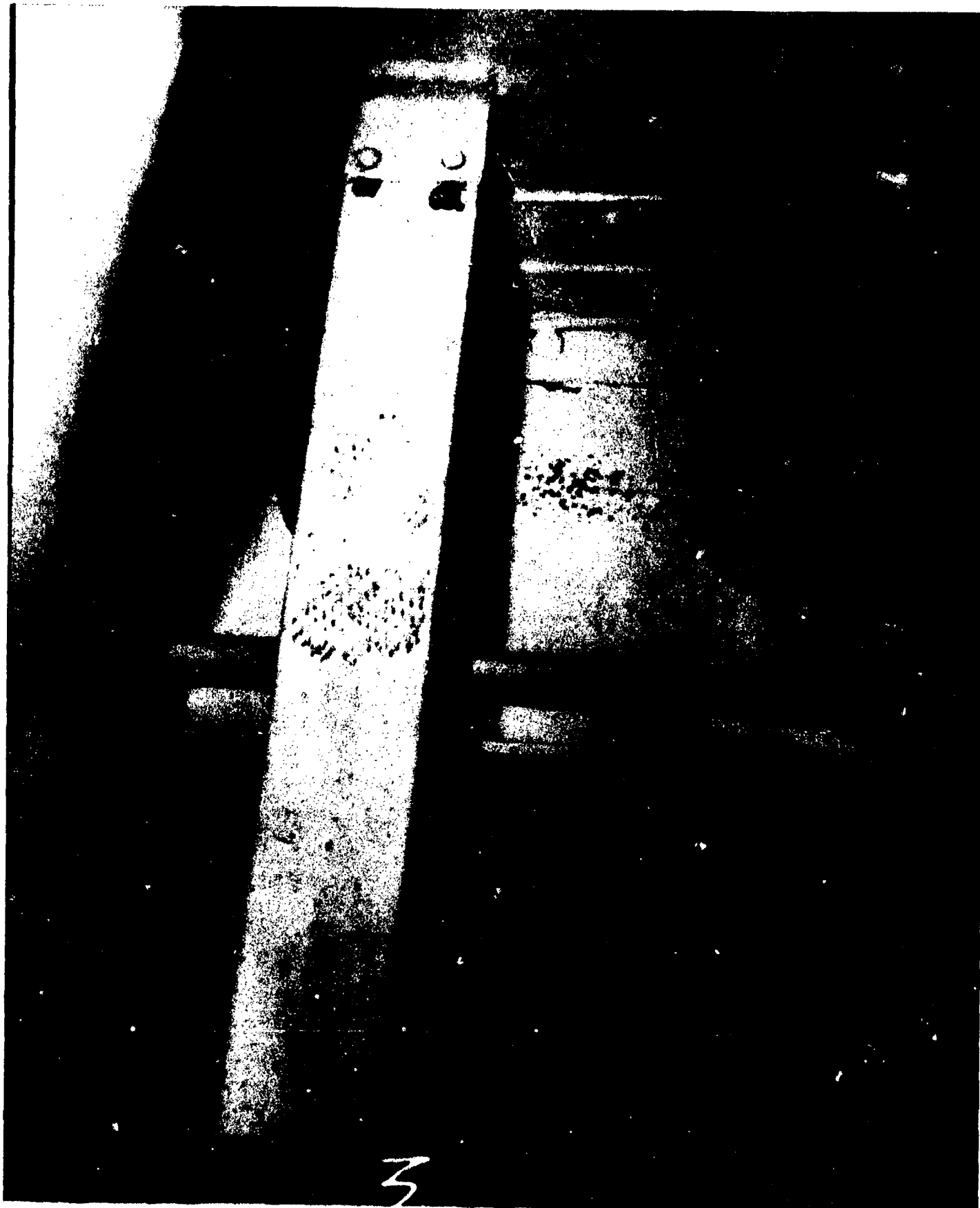
AB-CR-76-2079-2. A-203-2L. Looking forward at buckled vent duct,
frame 25 centerline.

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AB-CR-76-2079-3. A-203-2L. Looking forward at transverse girder, frame 26, port, showing damage to web in way of lightening holes and working of connections to main deck.

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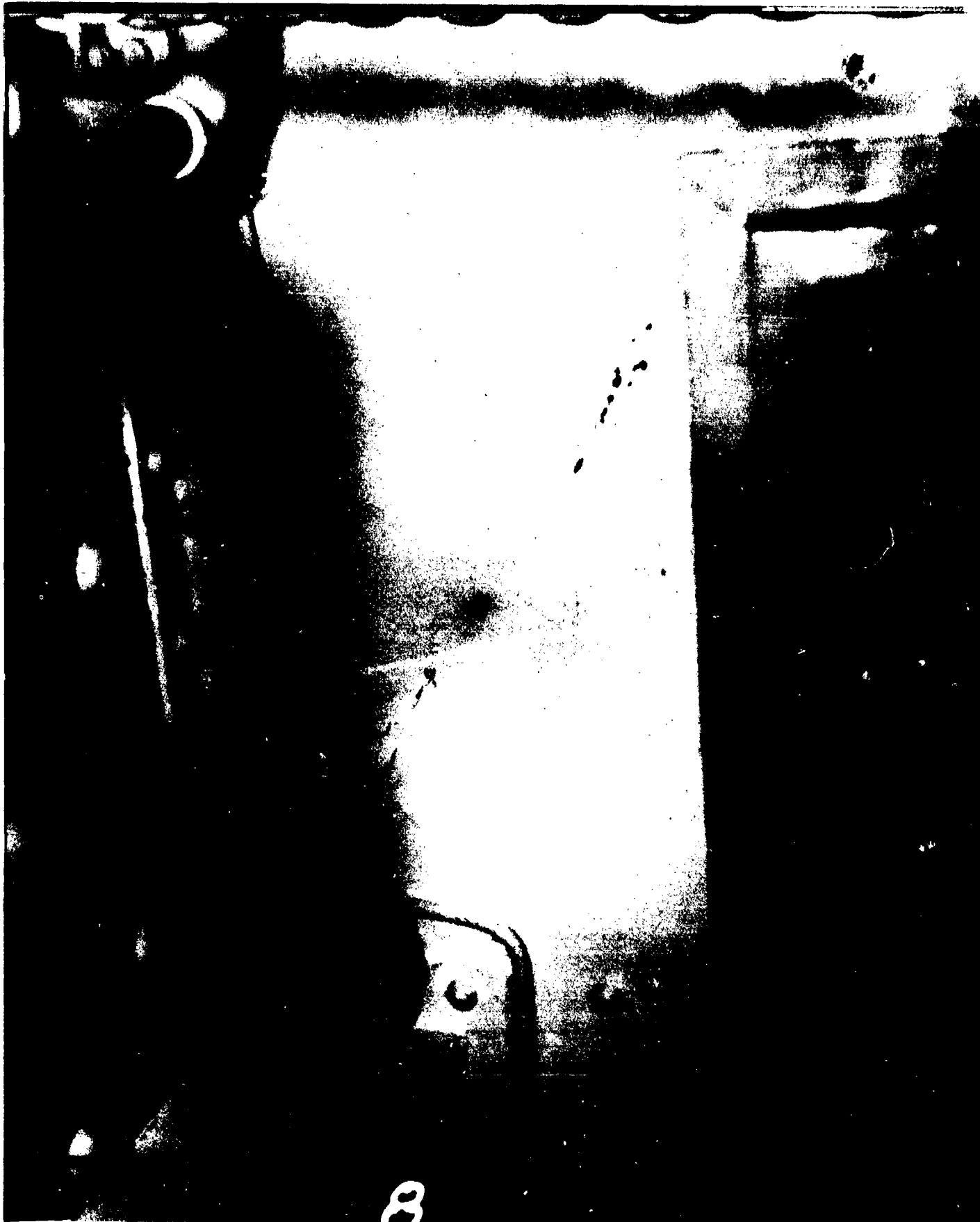
AB-CR-76-2079-4. A-203-2L. Looking forward and outboard at damage to partition resulting from movement of transverse girder at frame 26, port.

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AB-CR-76-2079-8. A-203-2L. Looking forward at compression buckle in bulkhead 33, port, under main deck.

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AB-CR-76-2079-6. A-203-3L. Looking forward and outboard at damage to bulkhead 36, starboard, in way of connection to shell and main deck.

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AB-CR-76-2079-7. A-203-3L. Looking forward and inboard at damage to bulkhead 36, starboard, in way of connection to main deck.

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AB-CR-76-2079-11. A-203-3L. Looking forward and inboard at damage to bulkhead 36, port.

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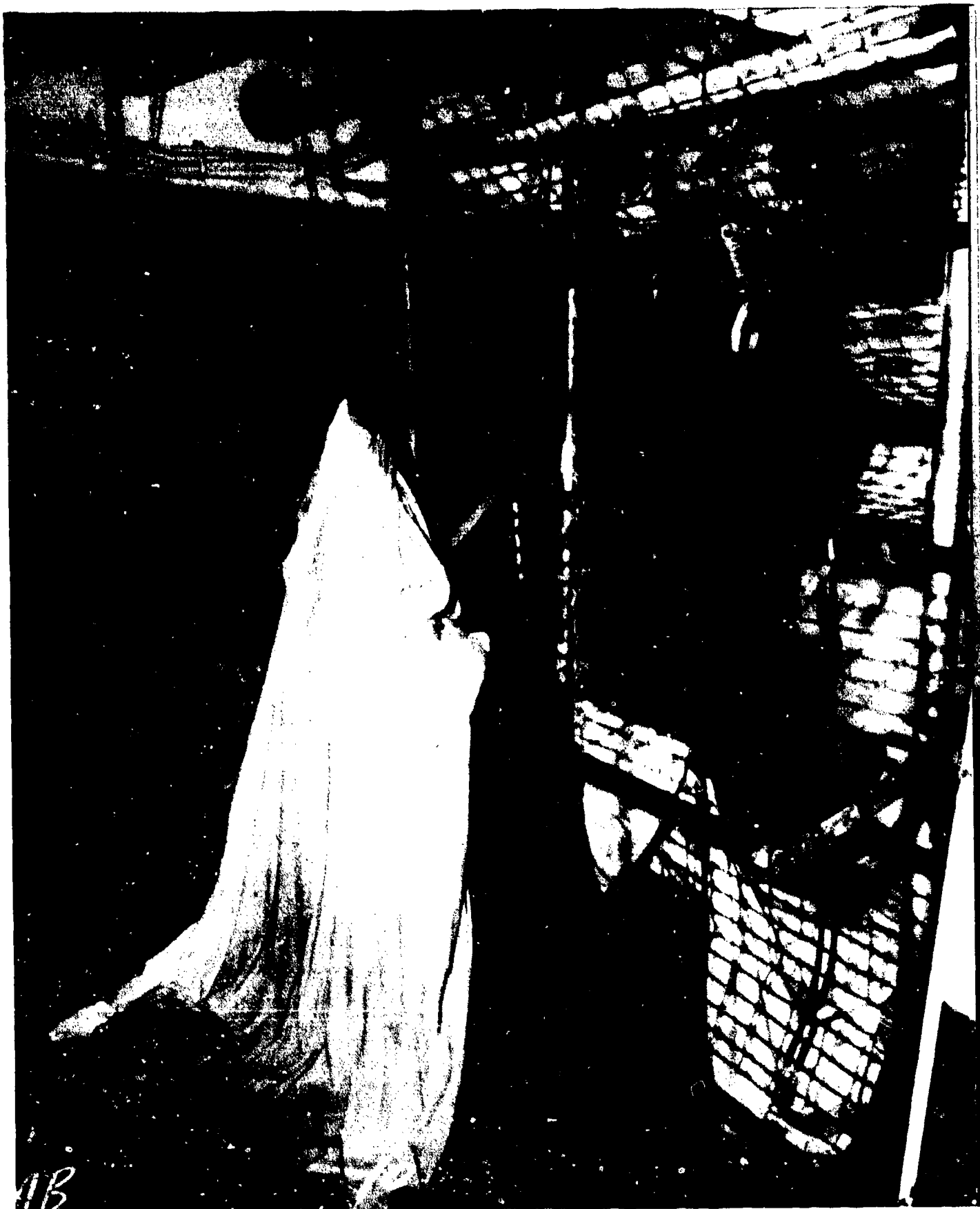
AB-CR-76-2079-9. A-203-3L. Looking inboard and aft at damage to longitudinal joiner bulkhead on port side of passageway, frame 38 to 40.

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AB-CR-76-2079-10. A-203-3L. Disarray of bunks and equipment, starboard side, aft of frame 40.

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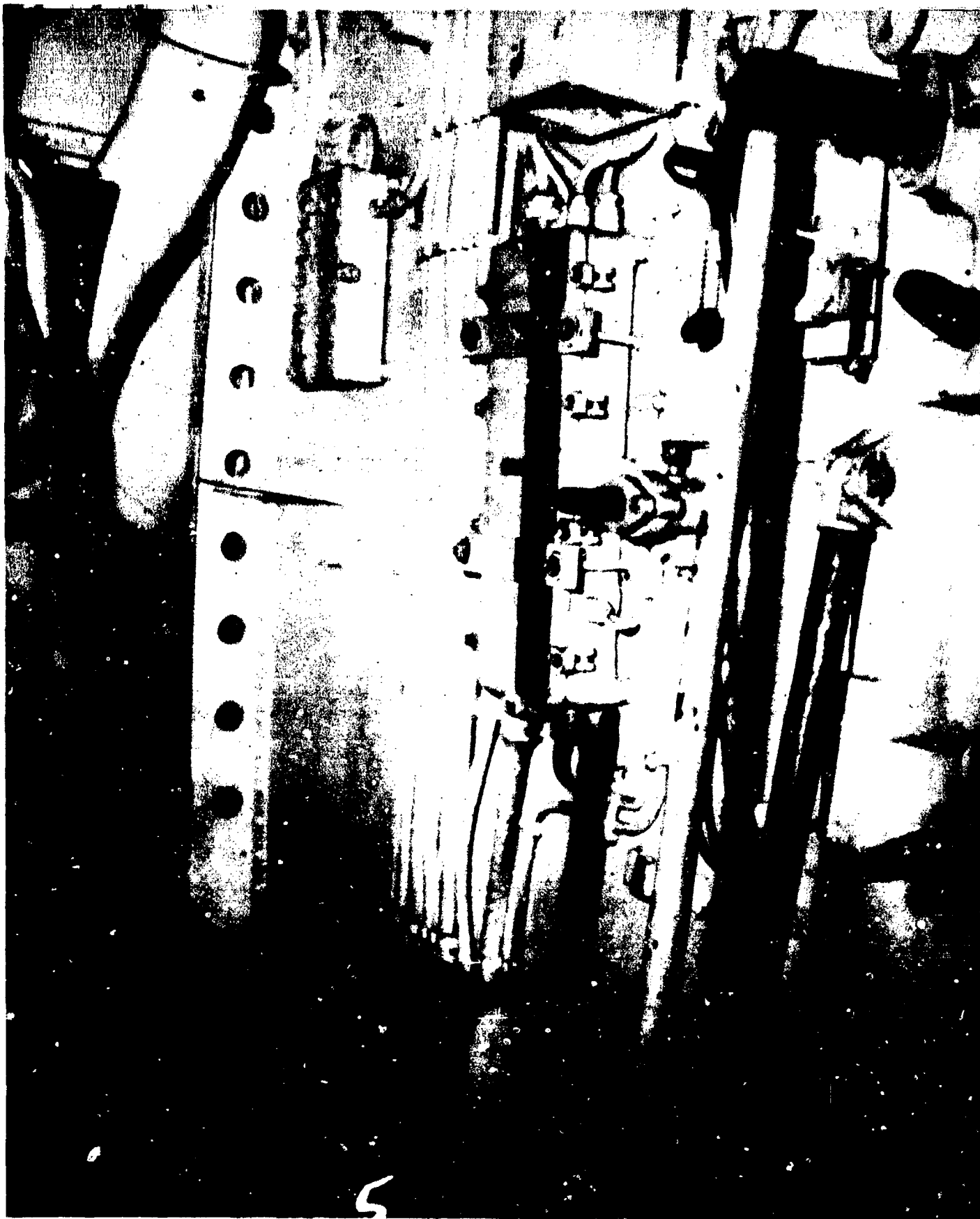
AB- CR-76-2080-6. A-203-3L. Looking forward at damage to transverse girder, frame 46, starboard. Note twist in flange.

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AB-CR-76-2080-5. A-203-3L. Looking to starboard at damage to forward side of bulkhead 48, starboard.

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AB-CR-76-2080-8. B-201-L. Looking forward at damage to joiner bulk-head inboard of starboard passageway, frames 48 to 53.

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AB-CR-76-2080-7. B-201-L. Looking forward at damage to joiner bulk-head outboard of starboard passageway, frames 48 to 50. Able damage.

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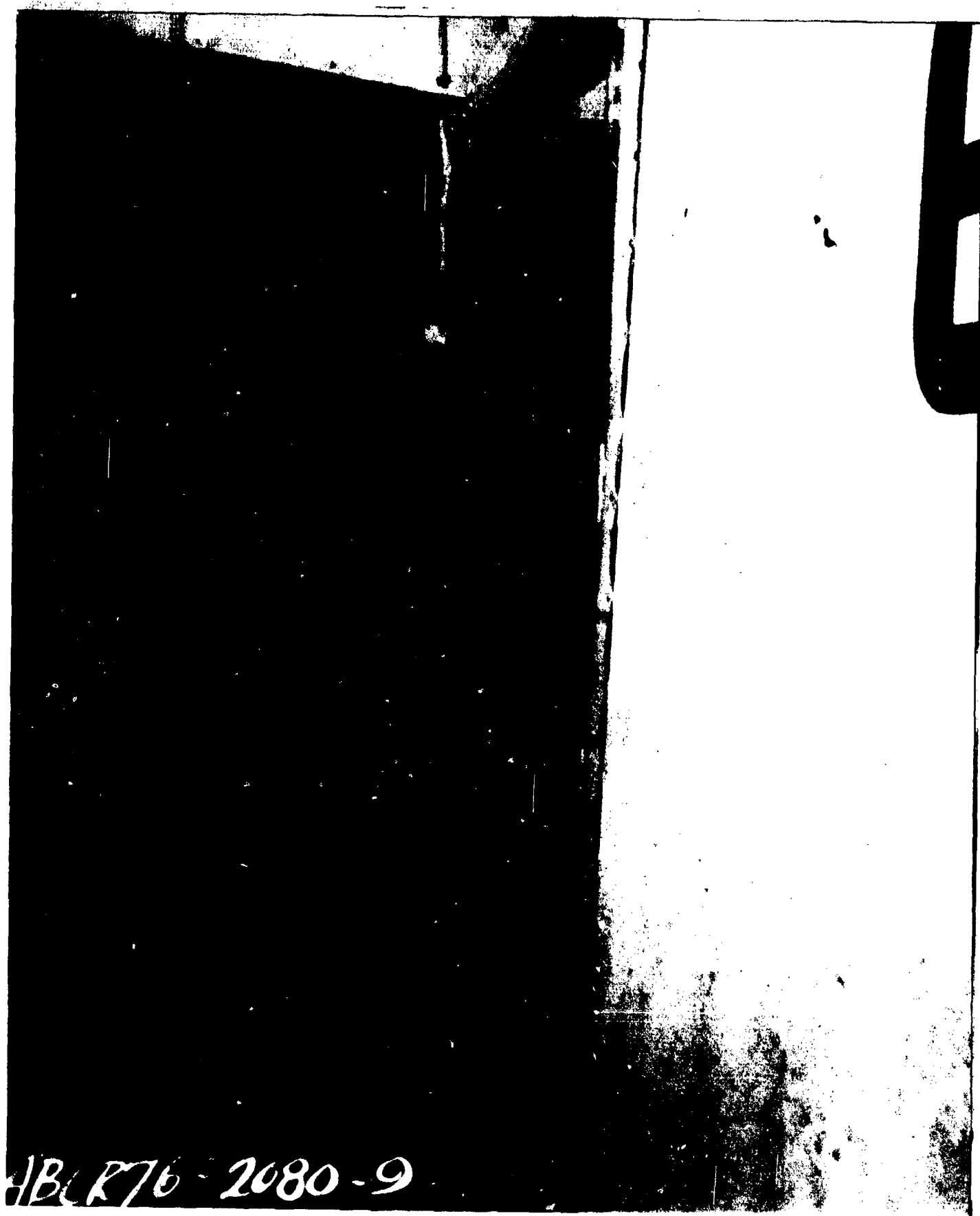
AB-CR-76-2081-2. C-201-L. Second deck frame 61, port side, looking forward and to port.

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AB-CR-76-2080-9. B-201-L. Looking forward at damage to joiner bulkhead outboard of starboard passageway, from frame 62.

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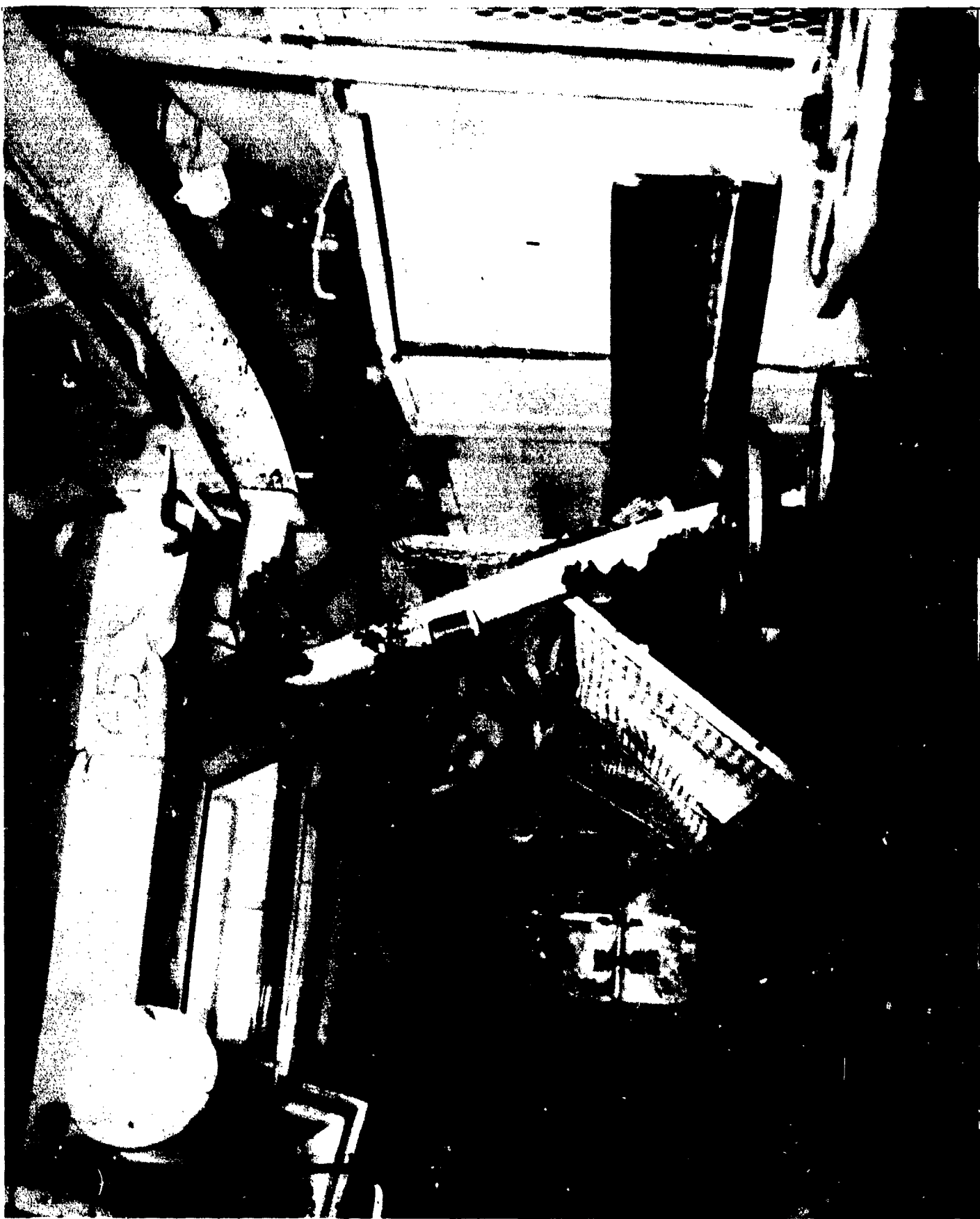
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AB-CR-76-2081-3. Second deck, looking forward from frame 62 showing damage to inboard metal joiner bulkhead in port passageway. Able damage.

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AA-CR-175-2158-1. C-201-L. Looking from port towards centerline showing damage resulting from Test A.

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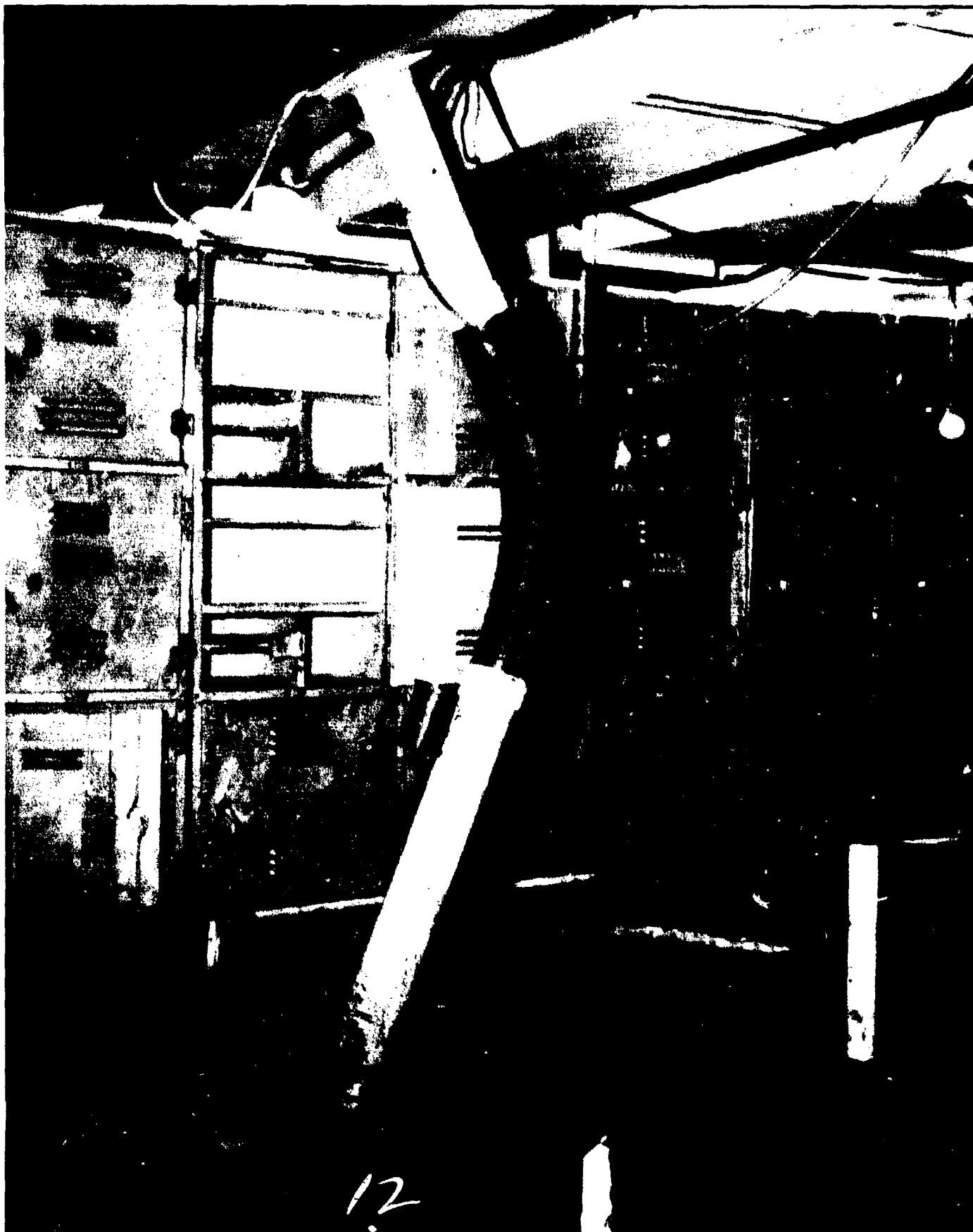
AB-CR-76-2080-10. C-201-L. Looking from port towards centerline.
Showing deflection of main deck and distortion of supporting structure.

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AB-CR-76-2080-12. Looking outboard at damage to stanchion, frame 64 starboard, midway between centerline and shell. Compare with 2158 - 1 showing Test A damage.

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AB-CR-175-2158-3. C-201-L. Looking outboard at damage to stanchion frame 64, port, midway between centerline and shell. Test A damage.

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AB-CR-76-2080-11. C-201-L. Looking outboard at fractured stanchion, frame 64, port, midway between centerline and shell. Compare with 2158-3 showing Test A damage.

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AB-CR-76-2081-8. Second deck, frame 68 starboard side. Looking forward and outboard.

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AB-CR-73-2081-1. Second deck - frame 71, port side looking outboard and forward, showing buckled vent trunk. C-201-L.

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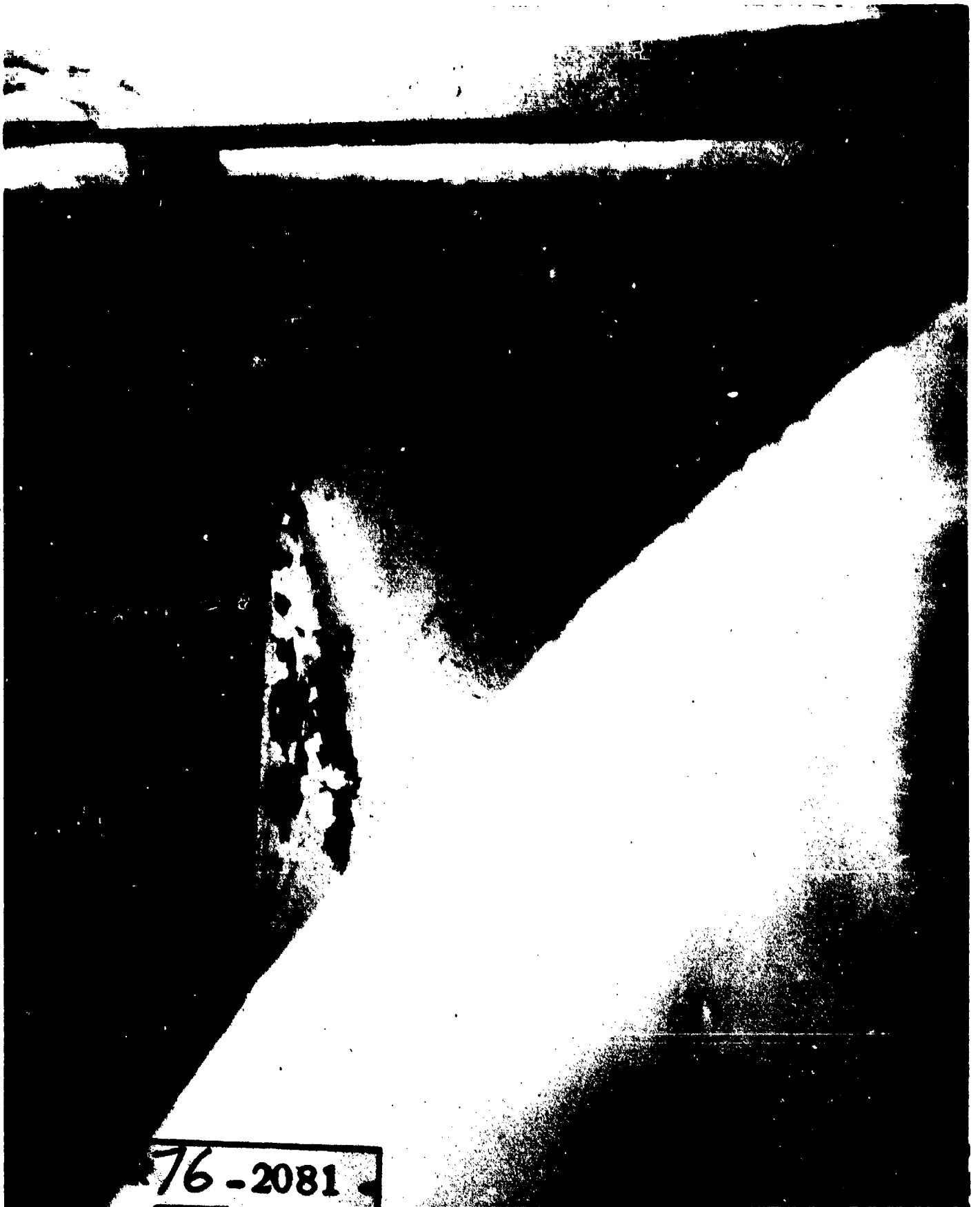
AB-CR-76-2081-4. Second deck, looking inboard and aft at corner of access trunk to forward engine, frame 70, port side.

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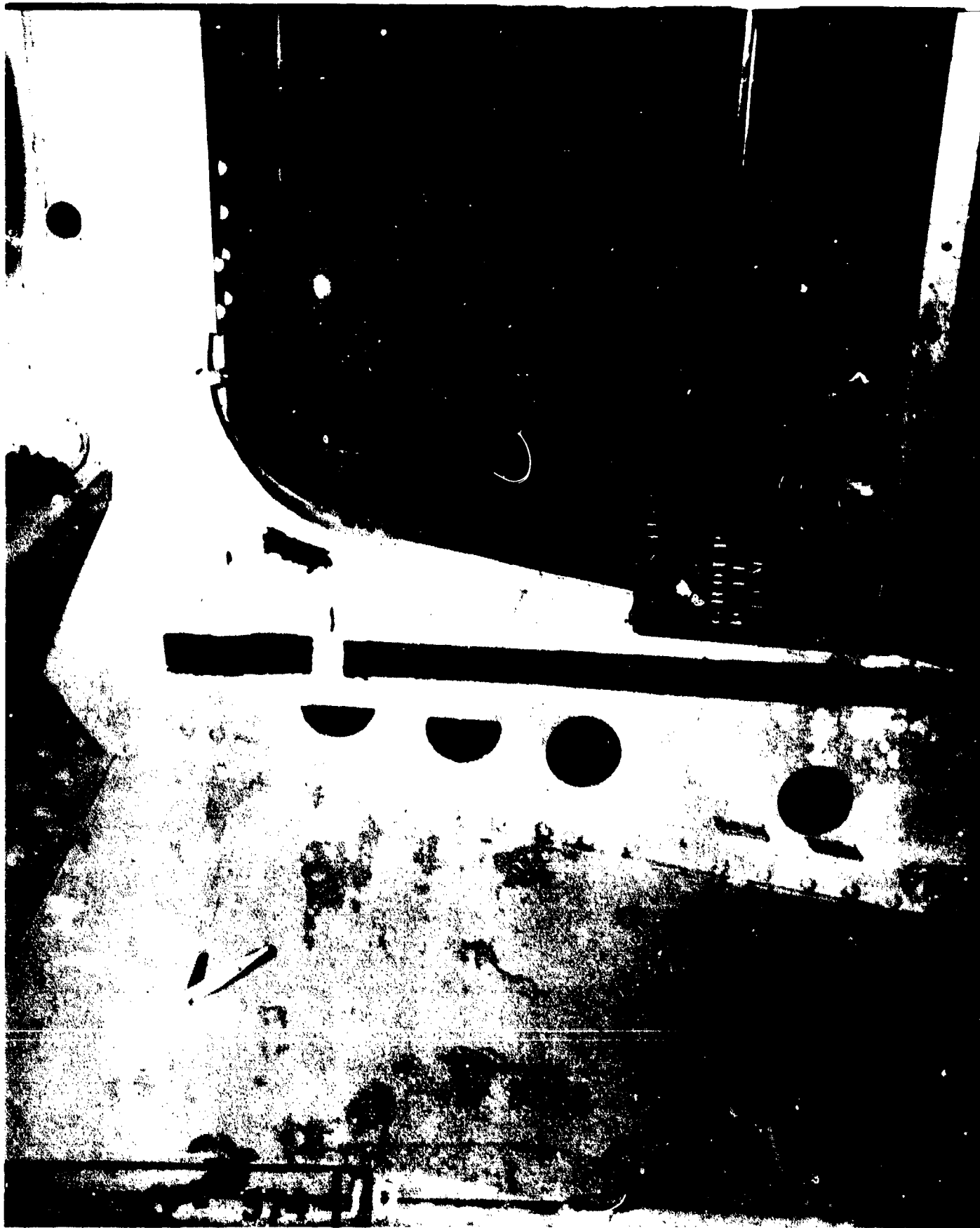
AB-CR-76-2081-9. Second deck, starboard side, looking inboard and aft at wrinkle in bulkhead 72 and failure of hinge joiner bulkhead.

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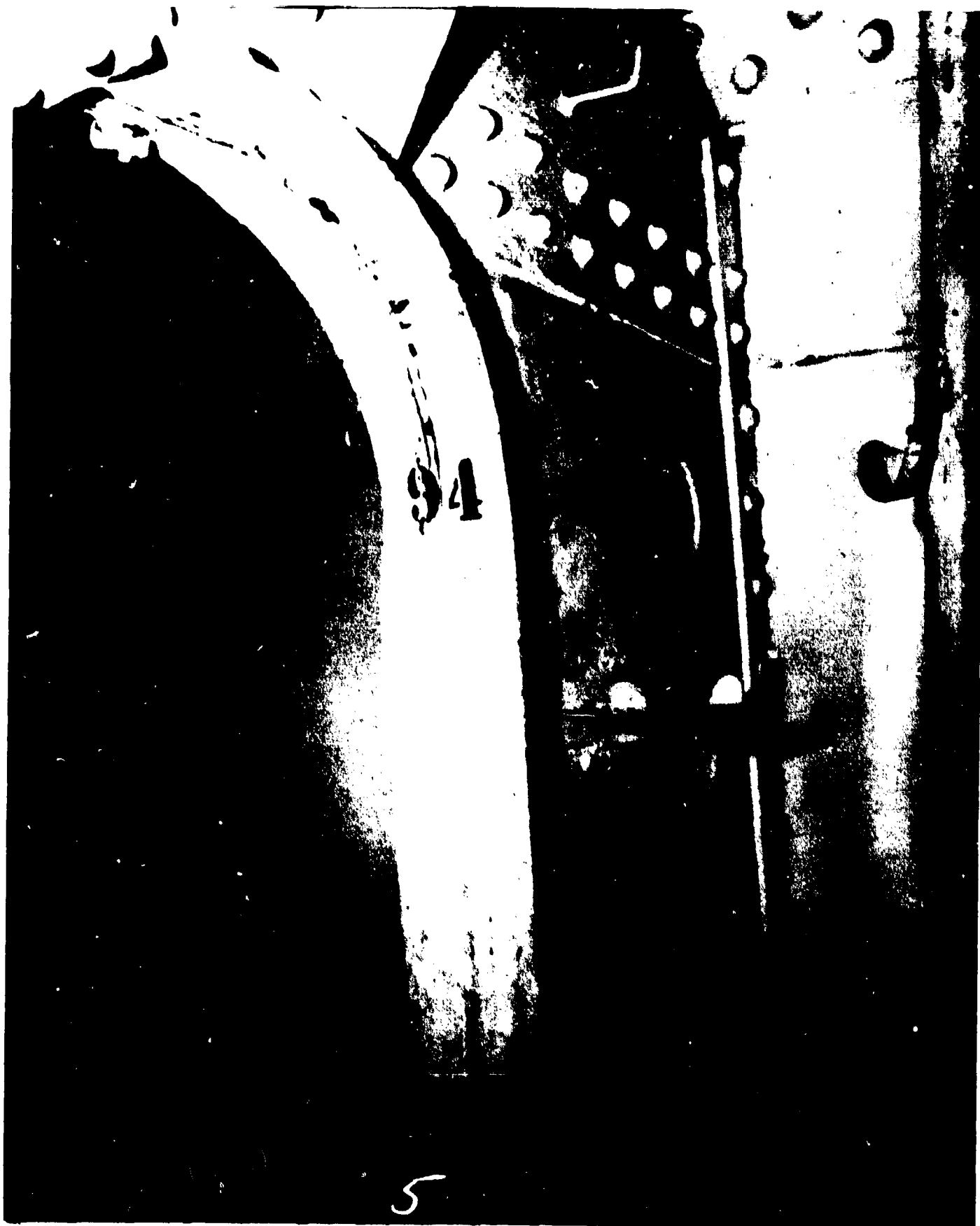
AA-CR-90-574-10. Frame 94 port side. Distortion in flange. Looking forward. Damage after Test A.

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AB-CR-76-2081-5. Frame 94, port side. Distortion in flange. Looking aft. No apparent increase in damage from Test B. See 574-10.

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AB-CR-76-2081-10. Second deck, looking outboard and to starboard at frame 94.

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AA-CR-90-574-12. C-202-L. Second deck frame 97, port side. Note deformation of stanchions and crack around top under beam.

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AB-CR-76-2081-7. Second deck, frame 97, port side. Note accentuating of Test A damage by Test B. See 574-12.

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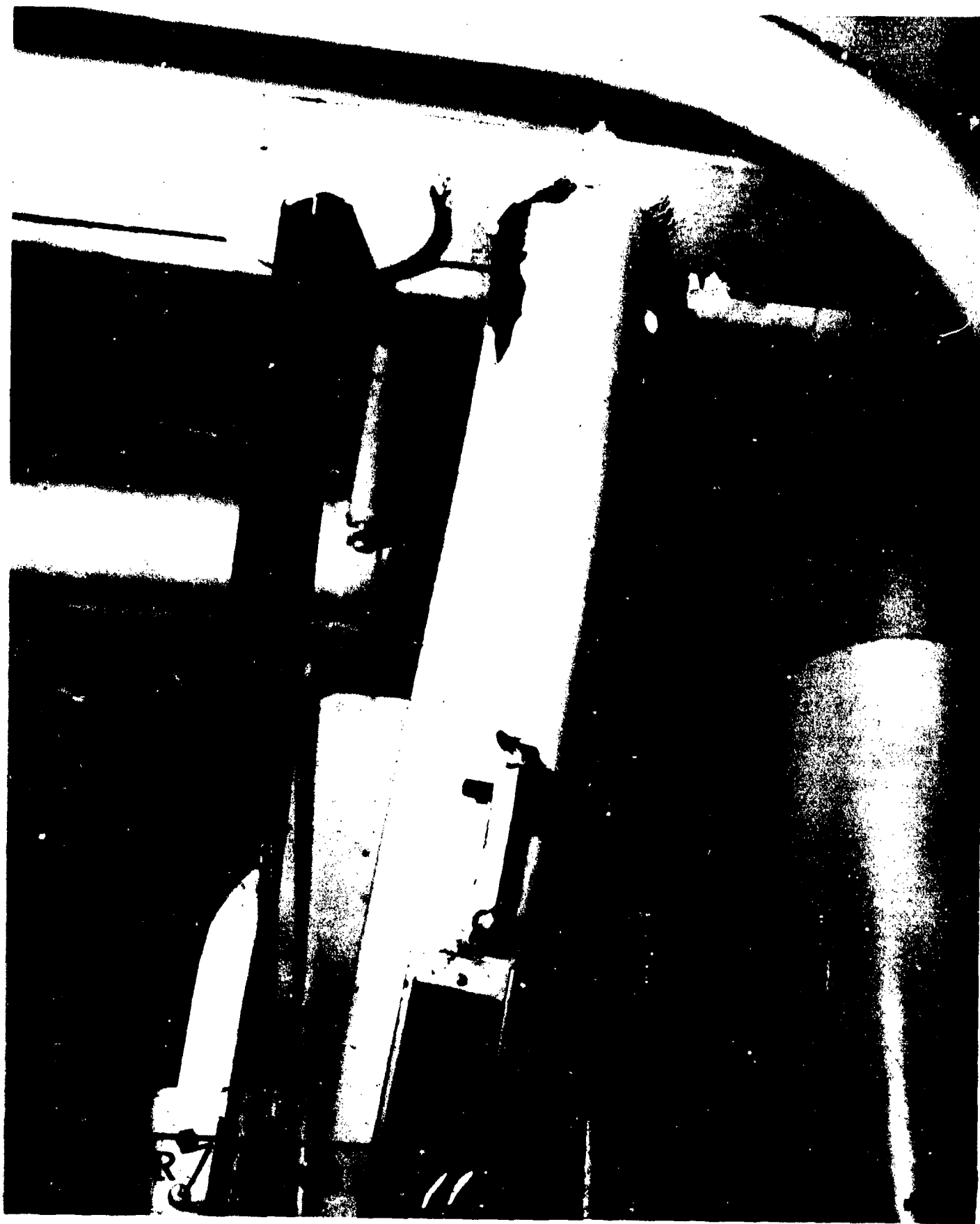
AB-CR-76-2081-6. Frame 97, port side. Buckle in web and distortion of flange. No apparent increase in damage due to Test Baker. See 574-11, looking aft.

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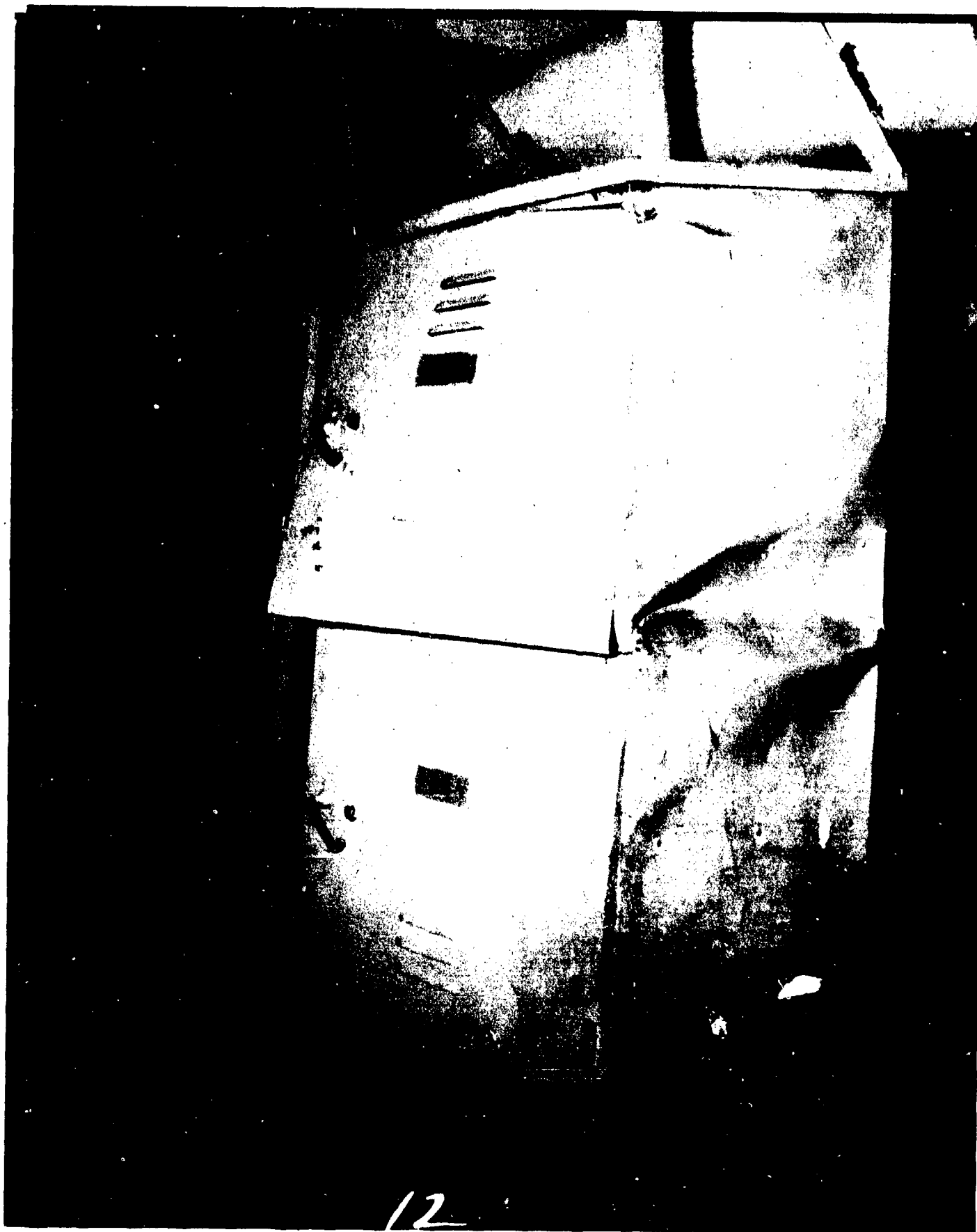
AB-CR-76-2081-11. Second deck, frame 97 note buckled stanchion at star-board quarter span and scratch gage indicating a 2" downward deflection of overhead.

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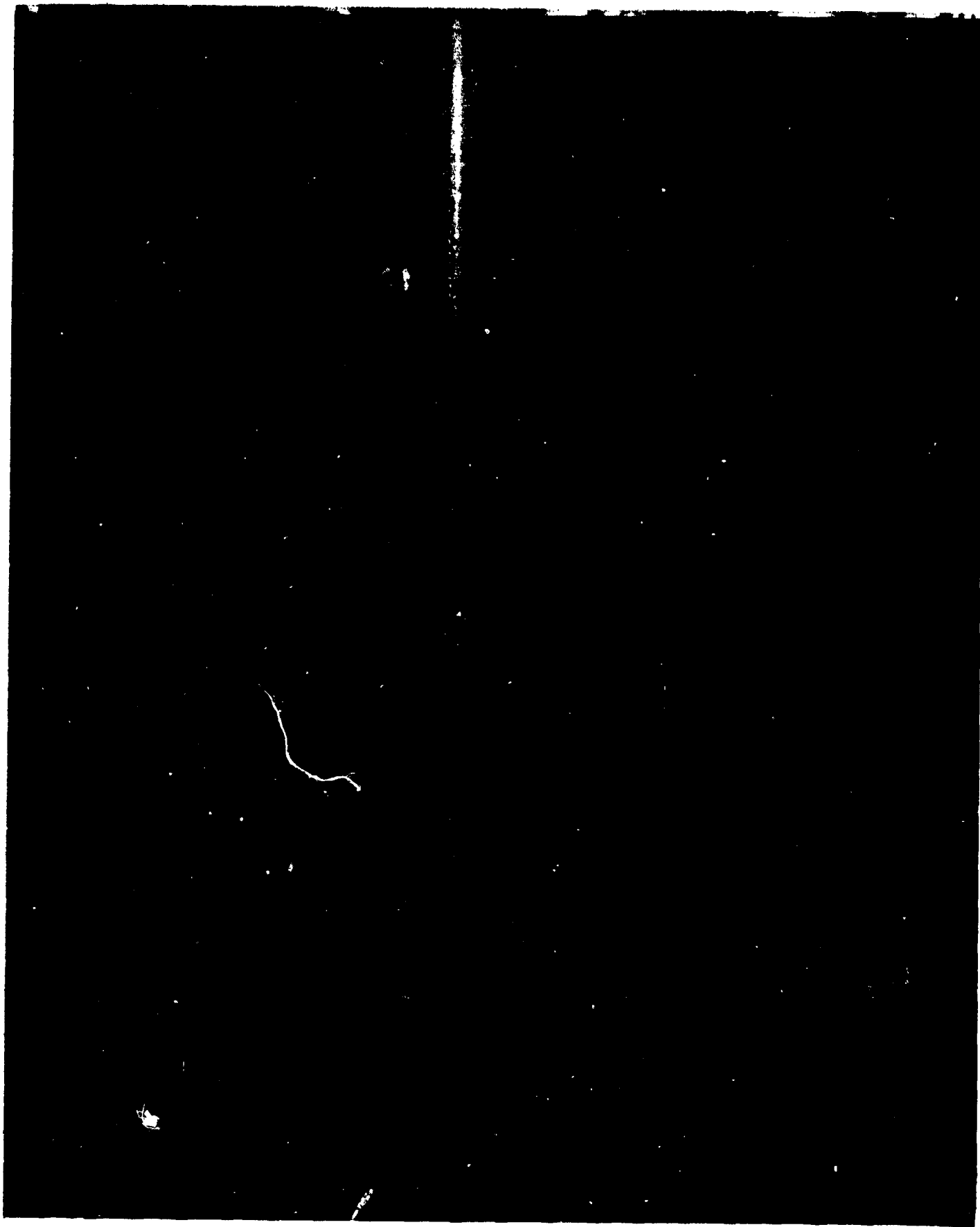
AB-CR-76-2081-12. Second deck, note buckled lockers at frame 115 near centerline. Looking to starboard from port of centerline.

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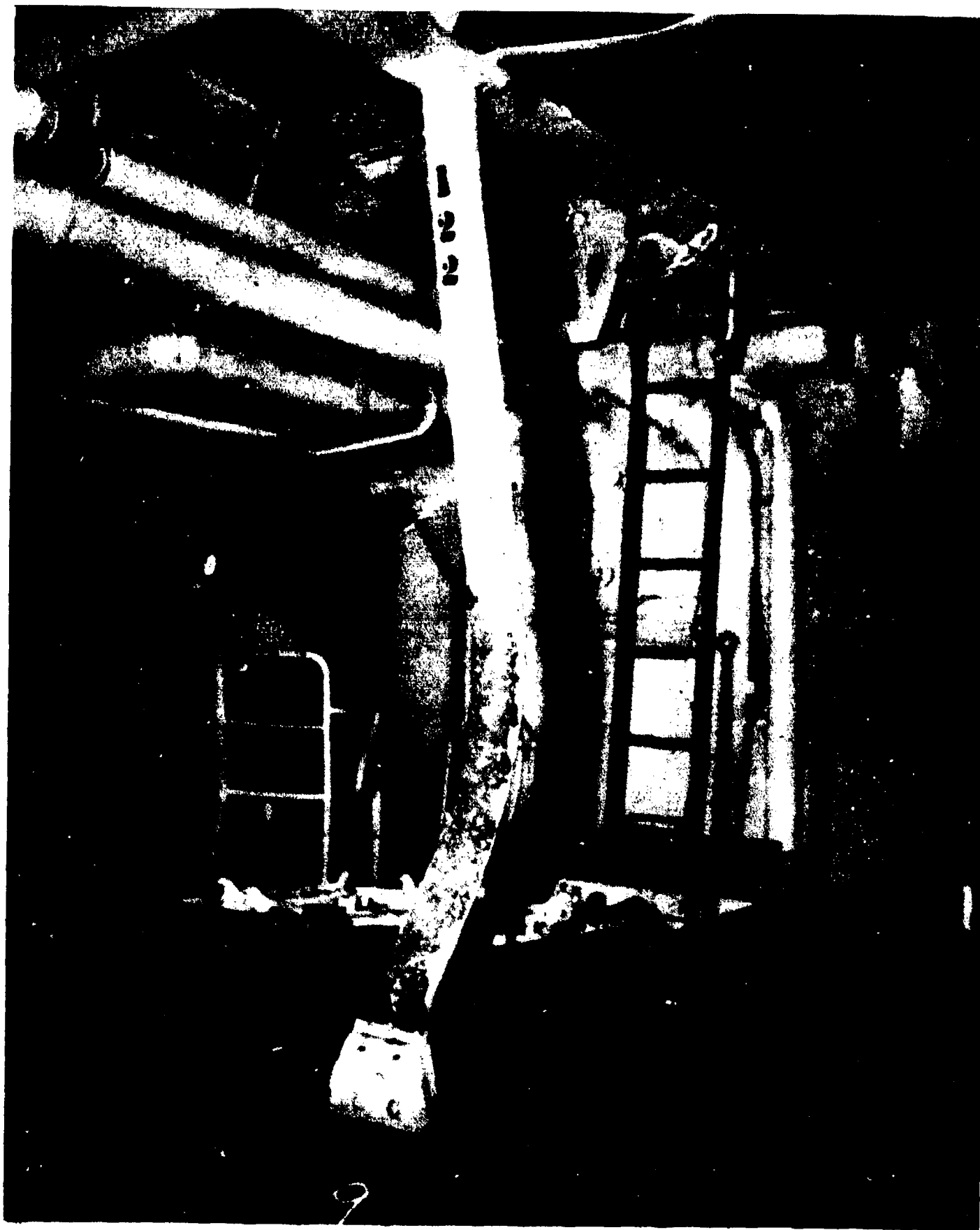
AB-CR-76-2082-1. D-203-1L. Looking outboard from centerline at buckled stanchion on starboard quarter span, frame 116.

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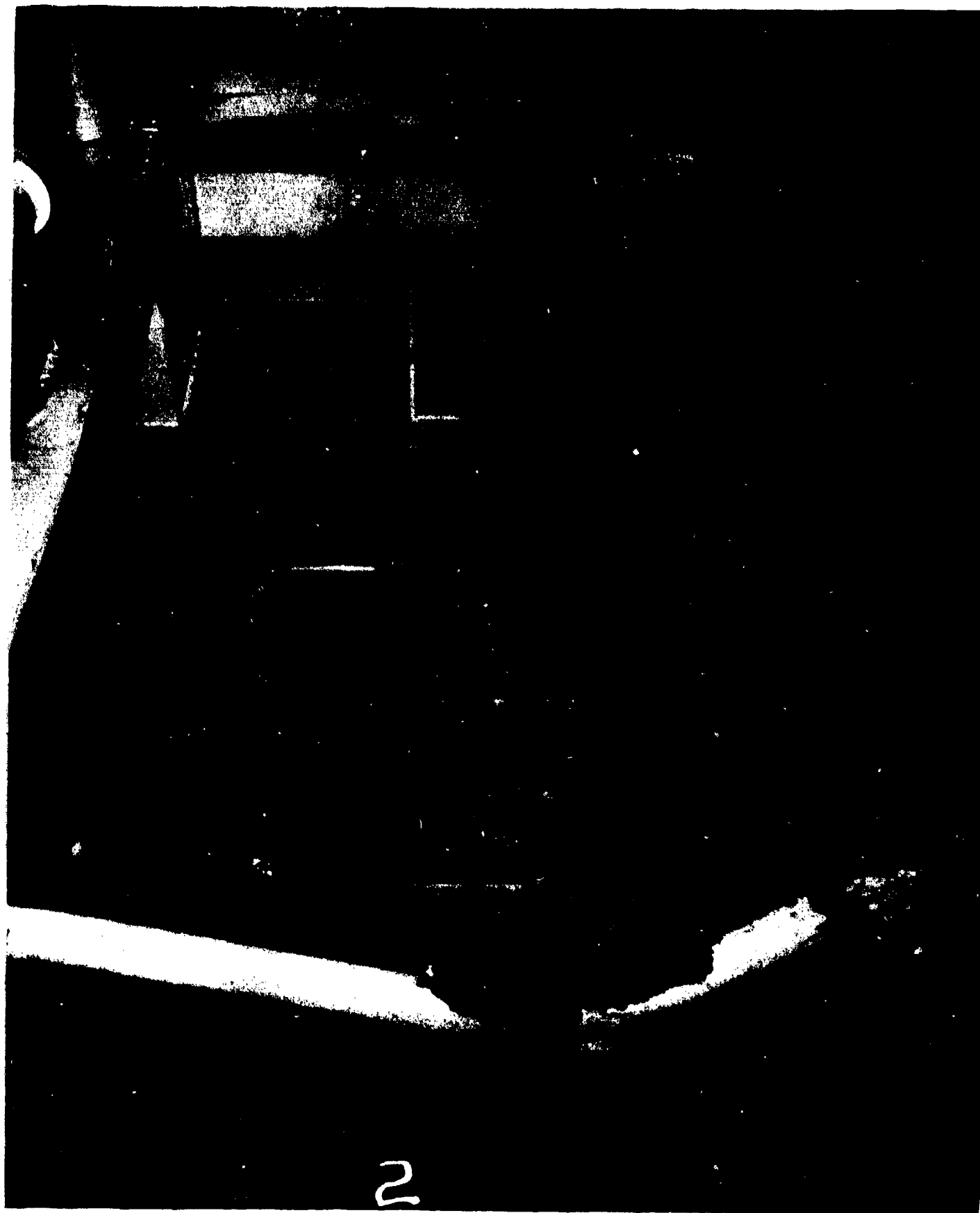
AA-CR-175-2178-9. D-203-L. Test able damage. Looking aft and to port at quarter span stanchion, frame 122, starboard. Compare with 2082-2.

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AB-CR-76-2082-2. D-203-L. Looking forward and to starboard from center-line. Showing buckled stanchion at quarter span and distortion of transverse girder, frame 122. See 2178-9 and 2178-10 for Test Able damage.

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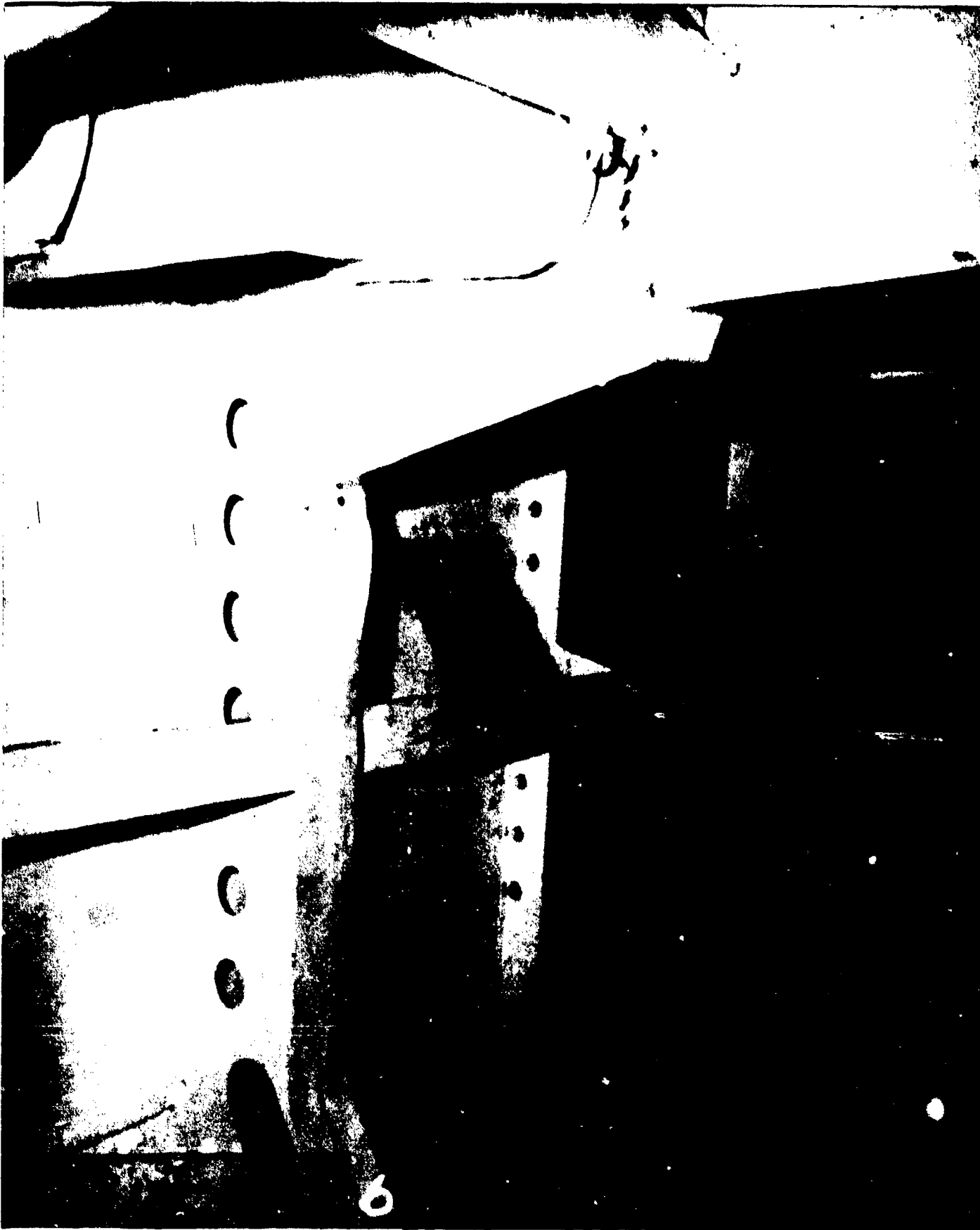
AA-CR-175-2178-10. D-203-L. Test Able damage. Looking forward at damage to transverse girder frame 122, starboard. Compare with 2082-2.

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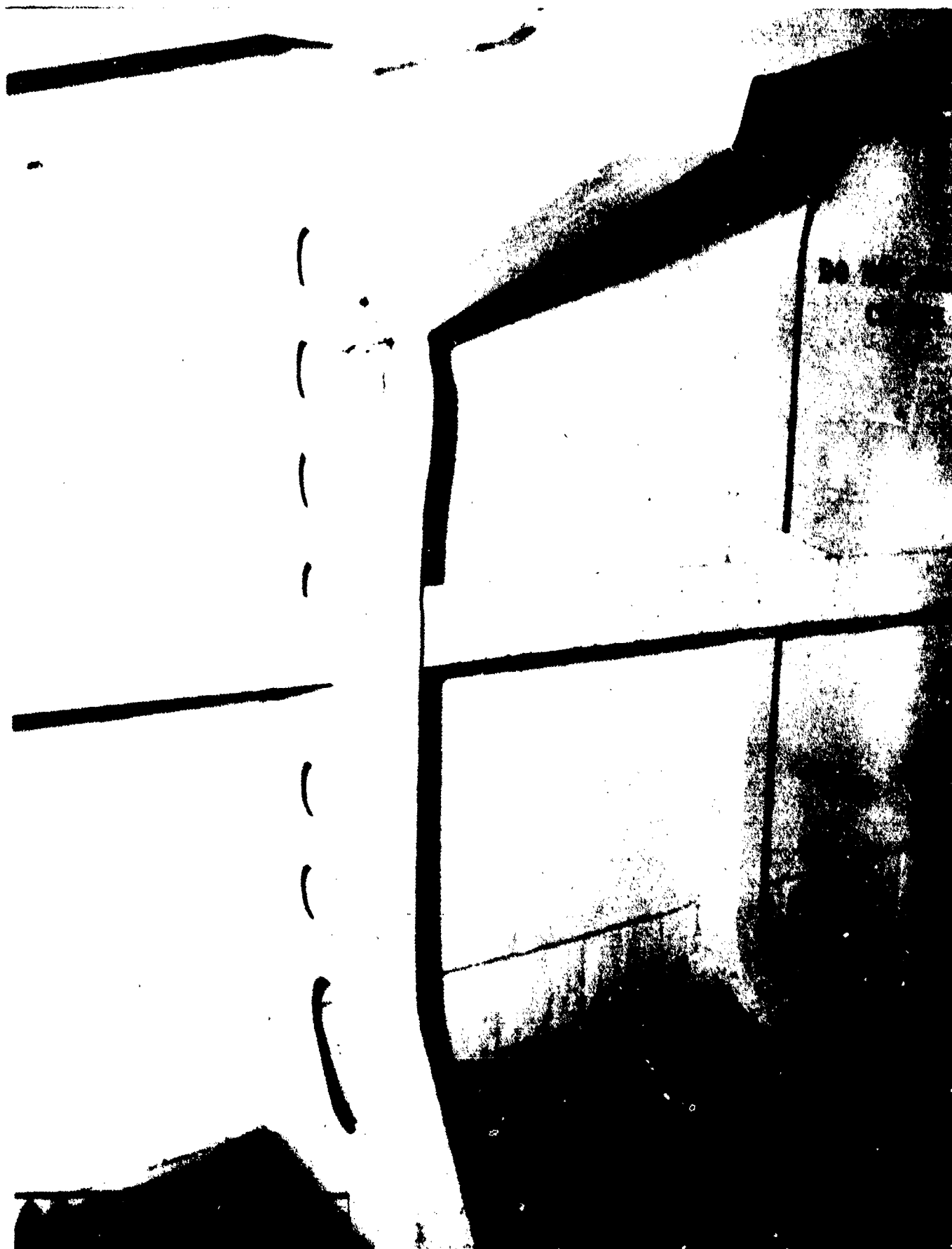


AA-CR-175-2178-6. D-203-L. Test able damage. Looking forward and out-board at damage to transverse girder, frame 122, port.

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AB-CR-76-2082-7. D-203-L. Looking forward and outboard at damage to transverse girder, frame 122, port, compare with 2178-6, showing test able damage.

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AA-CR-175-2178-2. Second deck, starboard outboard stanchion. Frame 125.
Test able damage.

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AB-CR-76-2082-4. D-203-L. Looking outboard at damage to stanchion at quarter span and to transverse girder, frame 125, starboard. Compare with test able damage shown in 2178-2.

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AB-CR-76-2082-6. D-203-L. Looking aft and to port at damage to transverse girder and quarter span stanchion, frame 125, port. Compare with test able damage, 2178-4.

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AA-CR-175-2178-4



AA-CR-175-2178-4. D-203-L. Test able damage. Looking aft at quarter span stanchion frame 125, port. Compare with 2092-6.

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AB-CR-76-2082-5. D-203-L. Deflection of deck and fracture of weld at base of stanchion, frame 126.

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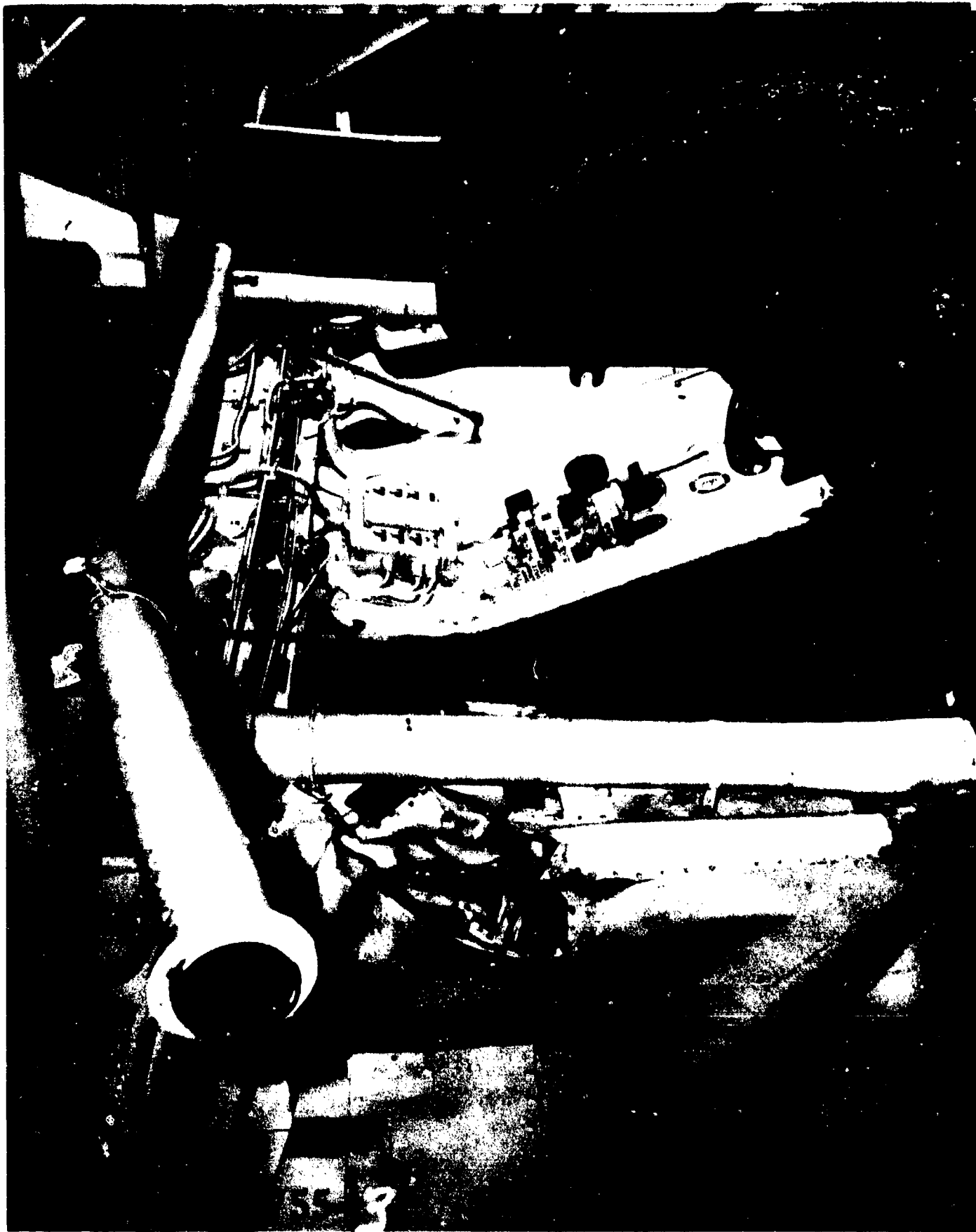
AB-CR-76-2082-3. D-203-L. Looking aft at damage to bulkhead 128, starboard. Compare with test able damage shown in 1755-3.

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AA-CR-68-1755-3. D-203-L. Test able damage. Looking aft and to port at bulkhead 128, starboard.

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AB-CR-76-2082-8. D-203-2L. Looking forward and to port at centerline stanchion, frame 130. Compare with test able damage shown in 2179-4.

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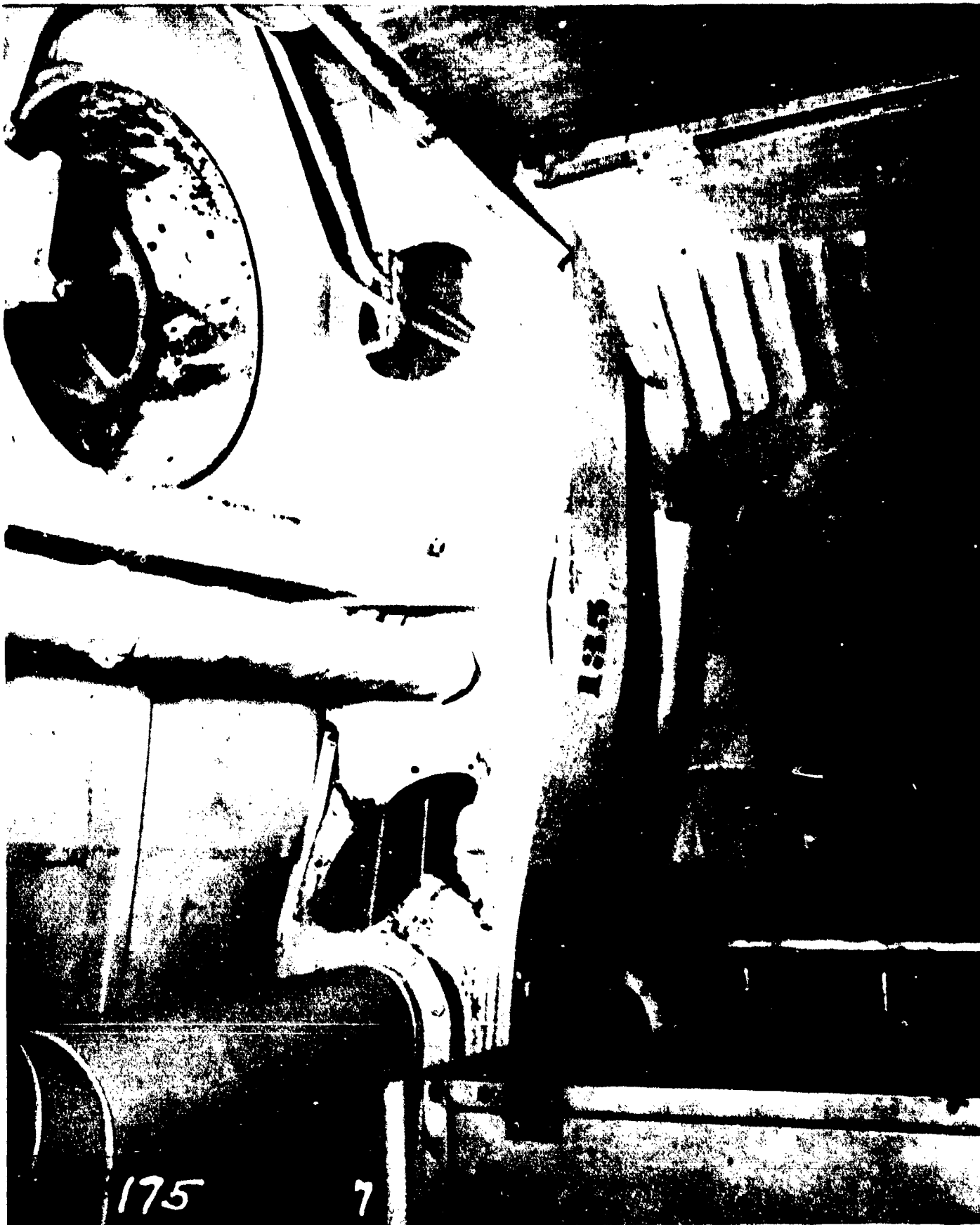
AA-CR-175-2179-4. D-203-2L. Test able damage. Looking aft at center-line stanchion and longitudinal girder at frame 130.

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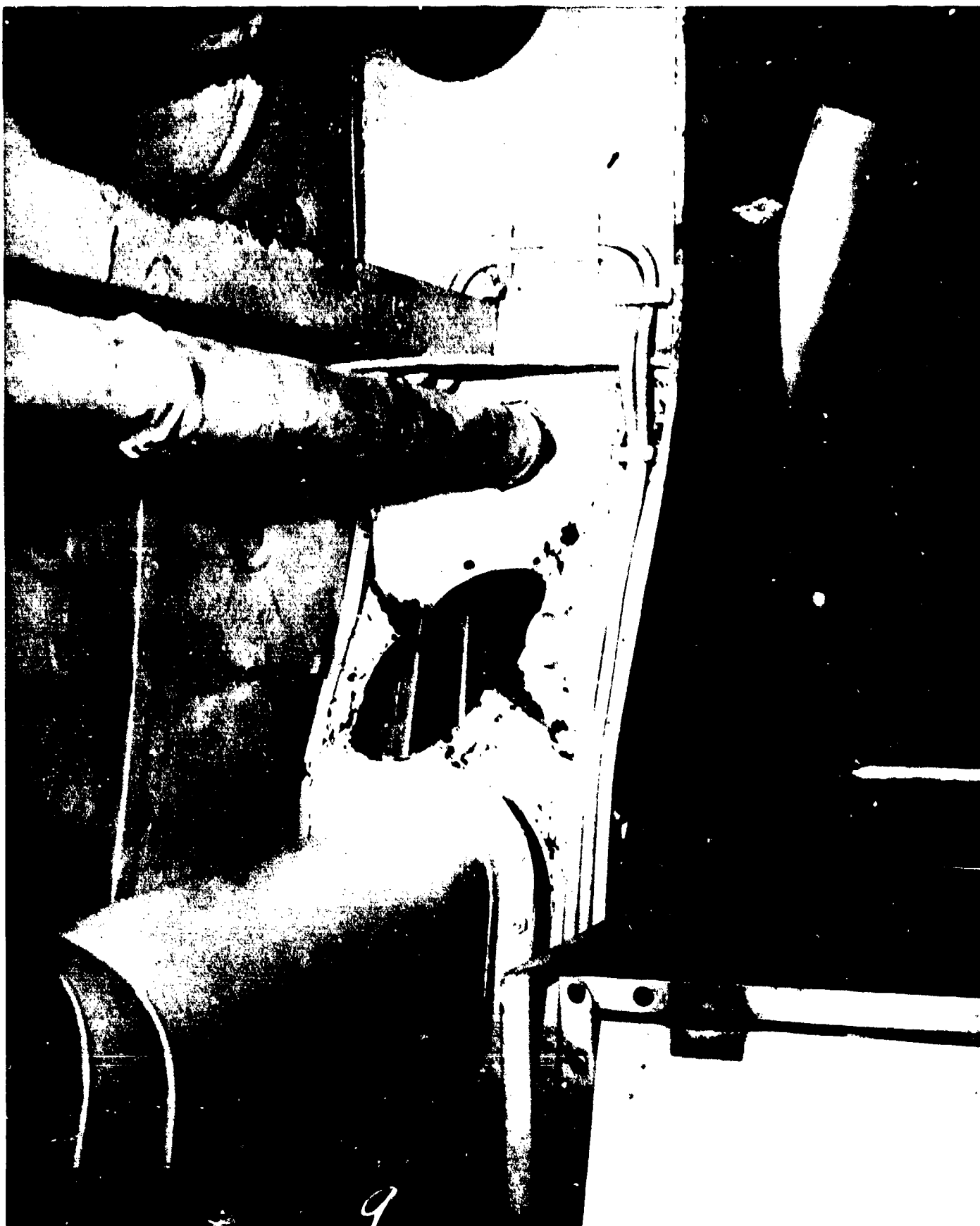
AA-CR-175-2179-7. D-204-L. Test able damage. Looking aft at failure in transverse girder 135 in way of lightening hole.

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AB-CR-76-2082-9. D-204-L. Looking aft at failure of transverse girder in way of lightening hole. Frame 135, compare with test able damage shown in 2174-7.

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AB-CR-76-2082-12. D-204-L. Looking forward and to port at connection of bulkhead 139 to second deck. Note distortion of bulkhead.

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AB-CR-76-2082-11. D-204-L. Looking outboard at deflection of starboard shell and distortion of transverse joiner bulkhead, frame 141.

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AB-CR-76-2082-10. D-204L. Looking aft and outboard at buckle in transverse joiner bulkhead in way of shell connection, frame 141, port.

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AB-CR-76-2080-3. A-309-L. Looking forward at damage to longitudinal joiner bulkhead, frames 33 to 36, on starboard side of passageway outside of main issuing room auxiliary.

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AB-CR-76-2080-2. A-309-L. Looking forward and outboard at damage to longitudinal joiner bulkhead, frames 30 to 32, on starboard side of passageway outside operating room.

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AB-CR-76-2080-4. A-309-L. General view showing disarray in dispensary.

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AB-CR-76-2080-1. A-309-L. Looking aft at damage to bulkhead 38, port, in way of connection to second deck.

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AB-CR-62-4165-10. Failure of web and flange 42" centerline longitudinal girder below second deck, frame 48 - 50. Forward boiler room. Taken from starboard.

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AB-CR-62-4165-2. Failure of web of 42" centerline longitudinal girder below second deck, frame 59 - 61. Forward boiler room. Taken from starboard.

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AB-CR-62-4165-8. Fracture at base of 16" x 3/8" column extending from boiler foundation to second deck. Frame 54 - 55. Centerline. Forward boiler room. View from aft.

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AB-CR-62-4165-5. Checked paint and deformation incident to compression failure of 16" x 3/8" column extending from boiler foundation to second deck. Frame 54 - 55, centerline. Forward boiler room, view of top of column taken from aft.

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AB-CR-62-4165-6. Checked paint and deformation incident to compression failure of 16" x 3/8" column extending from boiler foundation to second deck. Frame 54 - 55, centerline. Forward boiler room. View of top of column taken from port.

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AB-CR-62-4165-7. Checked paint and deformation incident to compression failure of 16'' x 3/8'' column extending from boiler foundation to second deck at frame 54 - 55, centerline. Forward boiler room. View of top of column taken from forward.

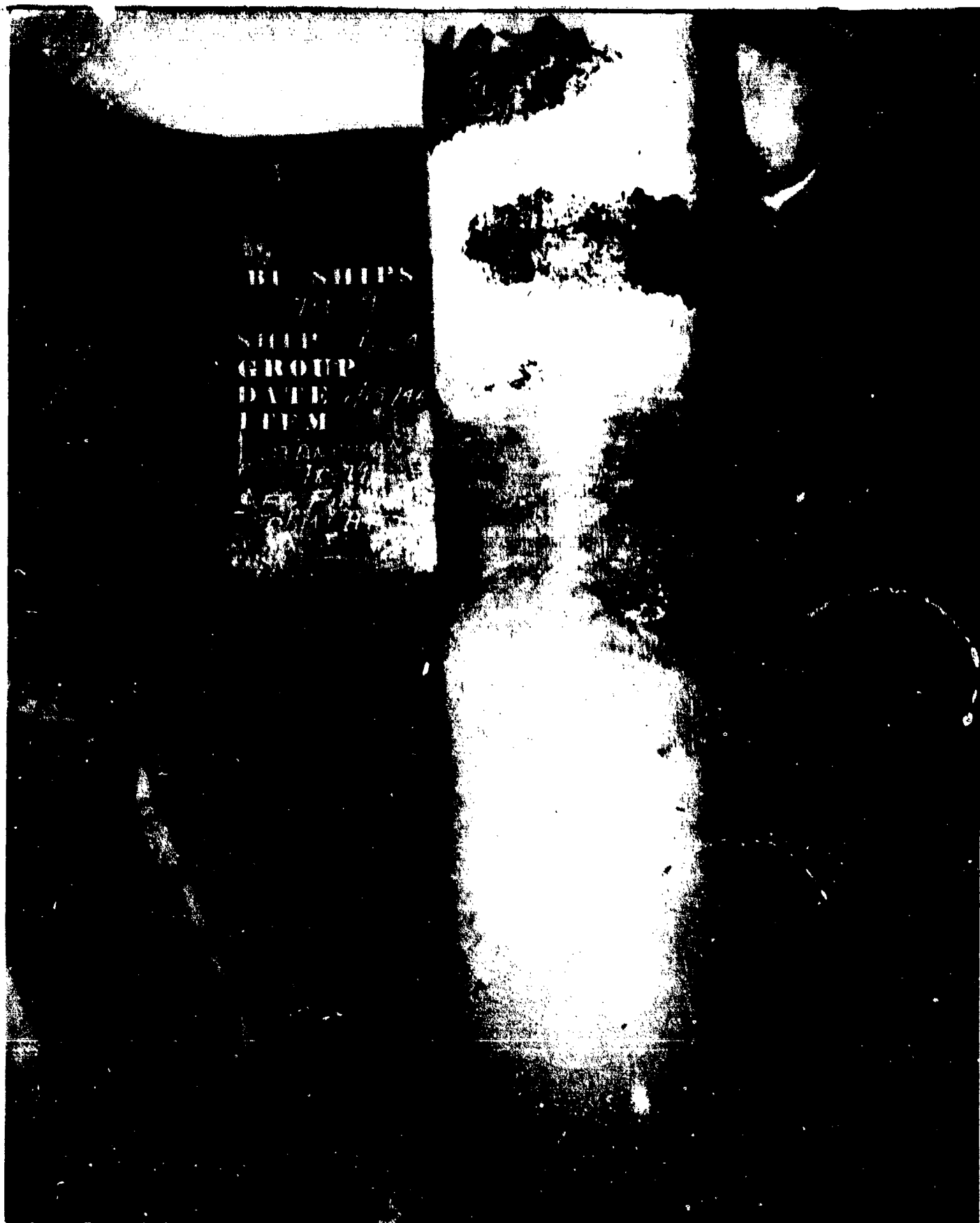
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AB-CR-82-4226-12. 16" x 3/8" column frame 78 1/2, centerline, extending from boiler foundation to second deck, after boiler room. Compression failure incident Test Able aggravated with resulting fracture of column. See photograph 575-5 for condition after Test Able.

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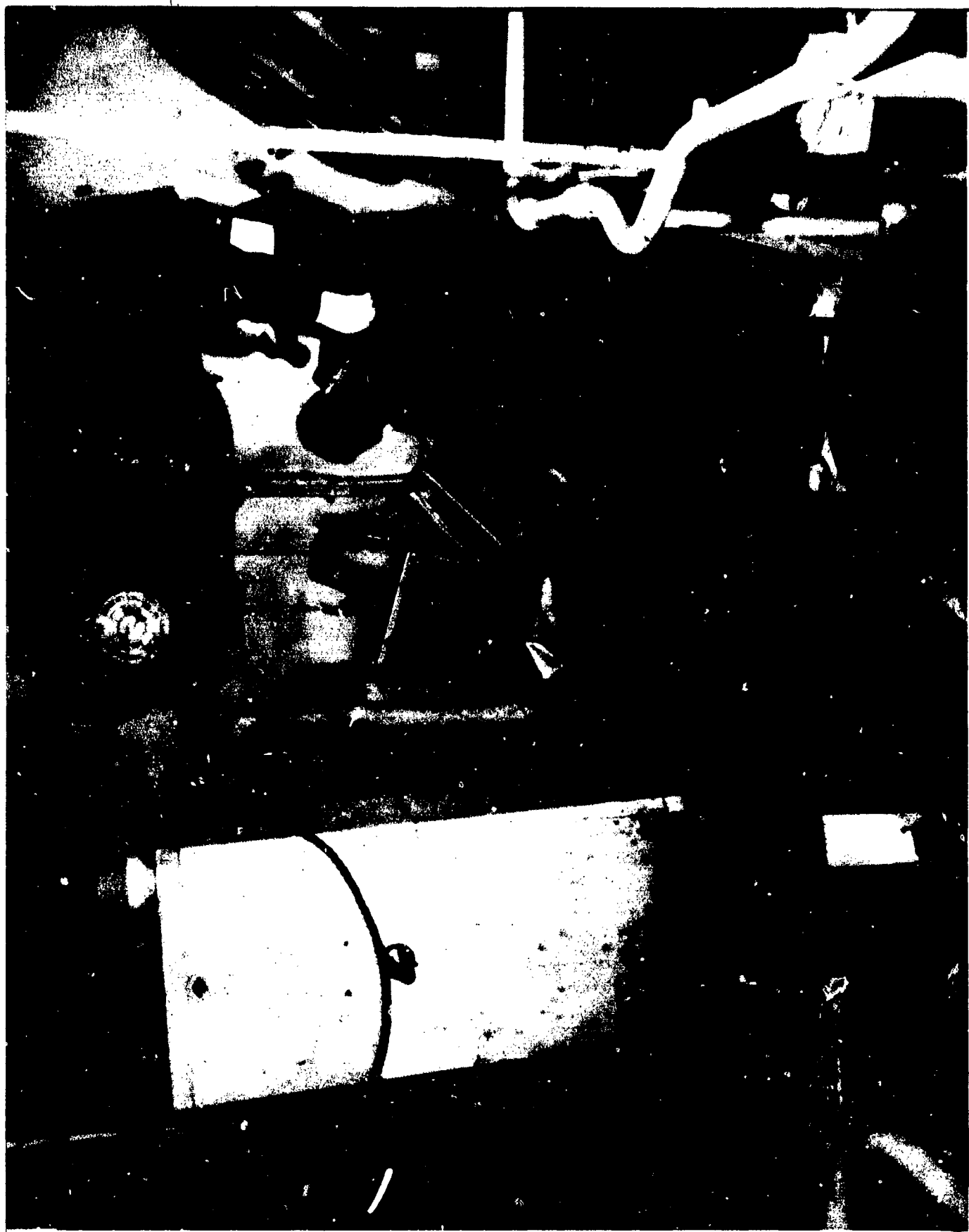
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AA-CR-95-575-5. 18'' x 3/8'' column frame 78 1/2 centerline extending from boiler foundation to second deck. After boiler room. Compression failure incident Test Able. See photograph 4226-12 for aggravation of damage and resulting fracture incident Test Baker.

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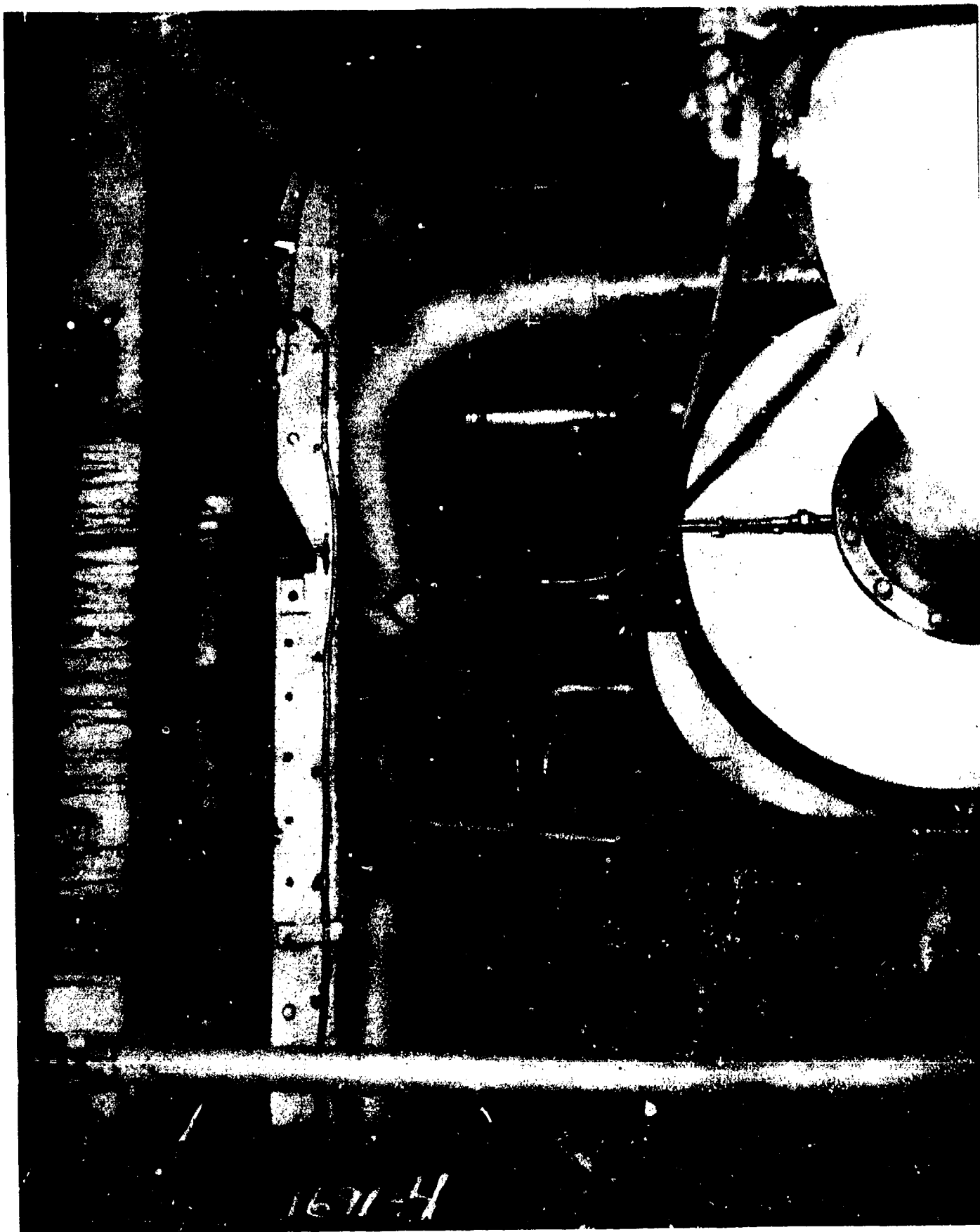
AB-CR-68-2982-1. Forward engine room. General view from centerline looking to starboard on upper level, just aft of frame 62.

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AB-CR-68-1691-4. Forward engine room, lower level, looking toward centerline from near port bulkhead at frame 62. Upper level is deflected down about 2" at this point. Note bent reachrod.

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AB-CR-68-1691-3. Forward engine room. Frame 62, port, lower level, near ladder to upper level. Deflection of reachrod and dislocation of lower socket. See also photograph 1691-4 for upper end of reachrod on starboard side.

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AB-CR-68-1691-2. Vent duct elbow in forward engine room just aft of bulkhead 60. View showing bulged lower side of duct and damage to insulation.

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AB-CR-68-1690-6. Forward engine room universal reach rod, frame 62, near starboard interior bulkhead looking to port. Showing dislocation of rod from socket. Less deflection than shown 1691-3 which shows similar rod, port side.

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AB-CR-68-1690-7. Floor plate framing failure in weld of butt joint. Forward engine room, frame 64, looking forward, lower level, starboard side.

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AB-CR-68-2982-11. Forward engine room. Typical distortion of steam line hanger. Looking forward at frame 65 in way of first longitudinal to port of centerline.

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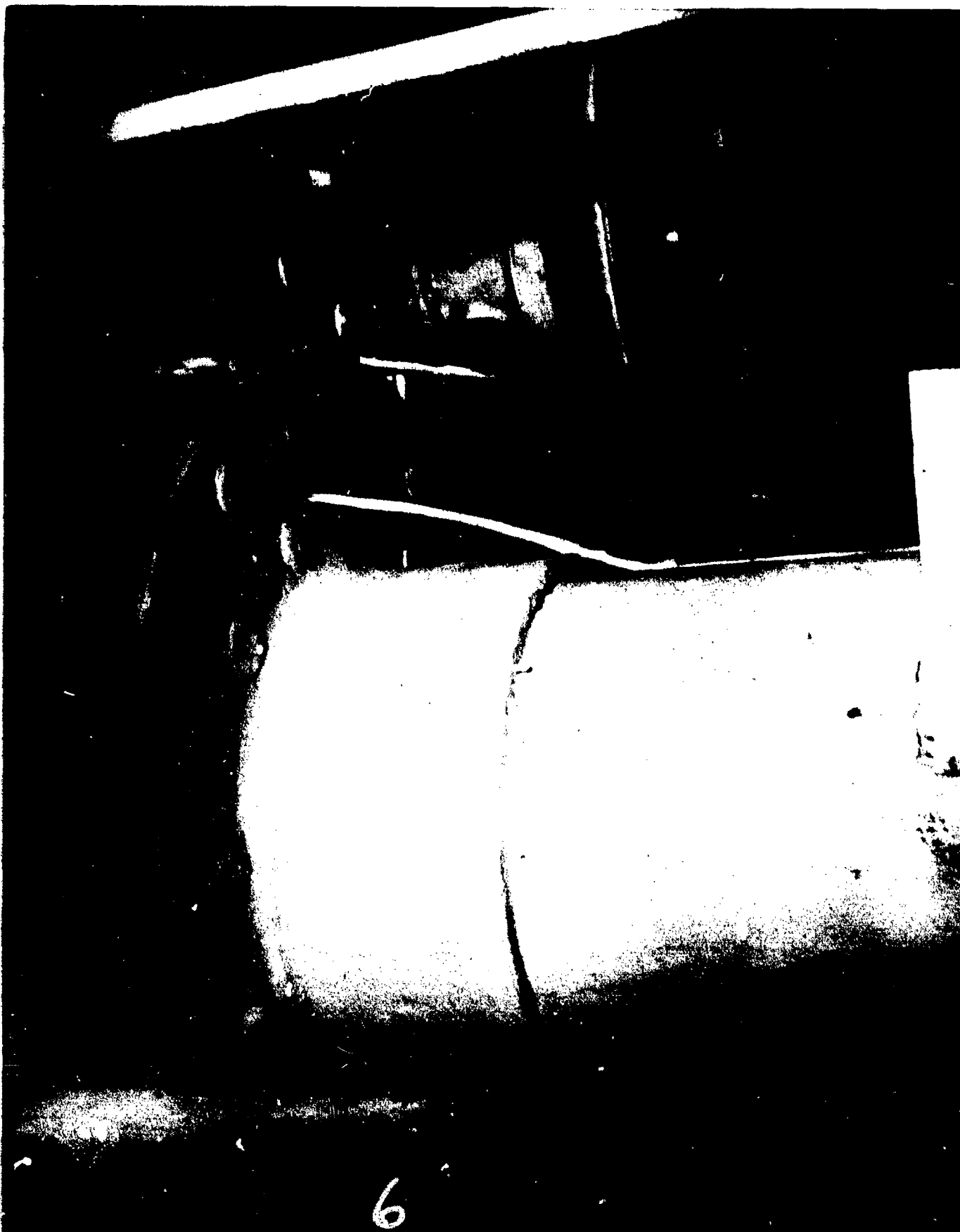
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AB-CR-68-2982-3. Forward engine room. Looking forward at 30' transverse girder under second deck frame 64, starboard, near connections to outboard bulkhead. Note failure of web in way of lightening hole and cutout for longitudinal deck girder.

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AB-CR-68-2982-6. Forward engine room. Connection of 12" x 3/8" stanchion at frame 64, centerline to flange of 42" centerline girder.

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AB-CR-68-2982-9. Forward engine room. Looking forward at 30' transverse girder under second deck at frame 64, port. Showing failure of web in way of lightening holes and cutouts for longitudinal deck girders near centerline.

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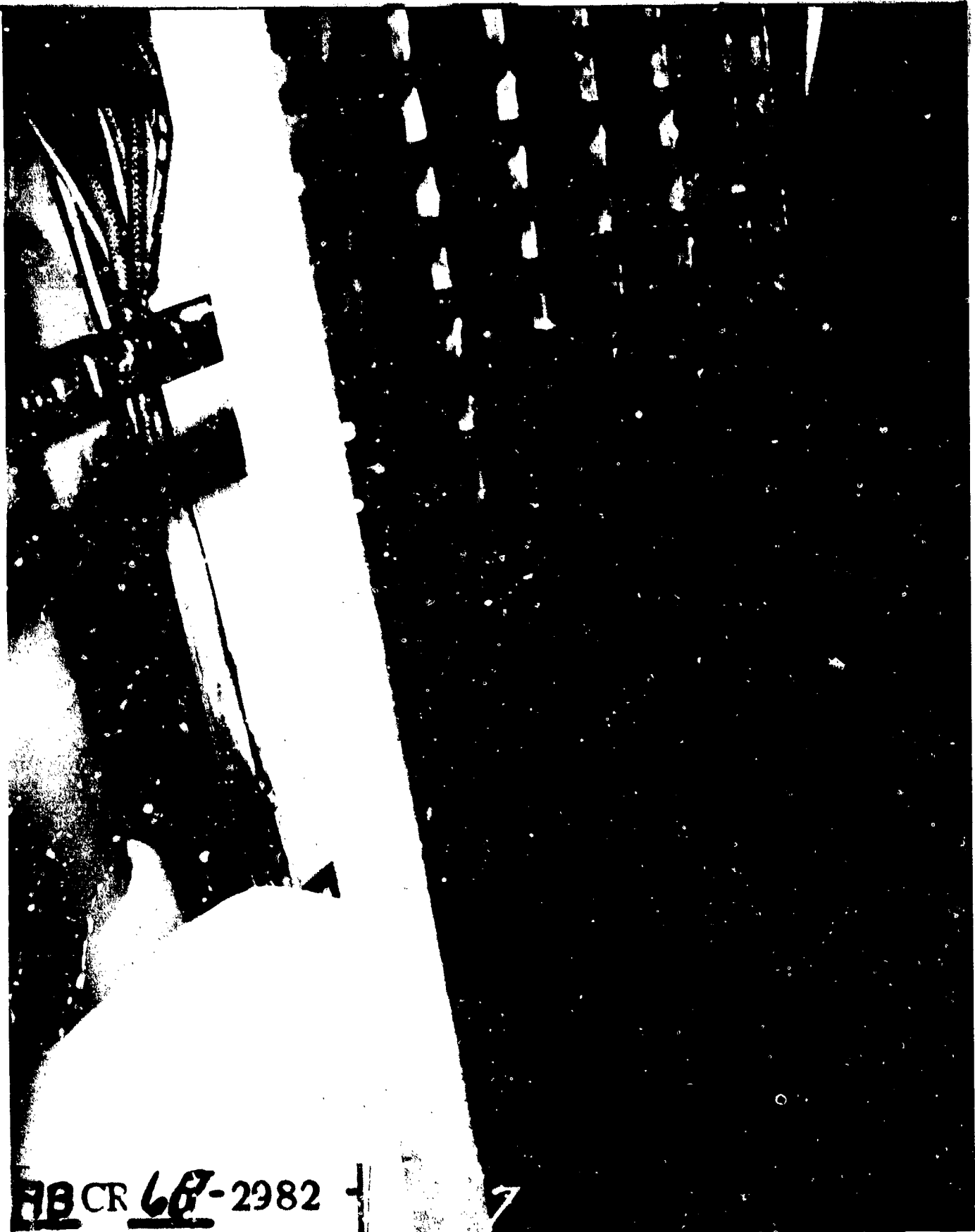
AB-CR-68-2982-12. Forward engine room. Main steam line hanger in way of first longitudinal to port of centerline at frame 64 1/2. Weld has pulled away from under side of deck.

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AB CR 68-2982 - 7

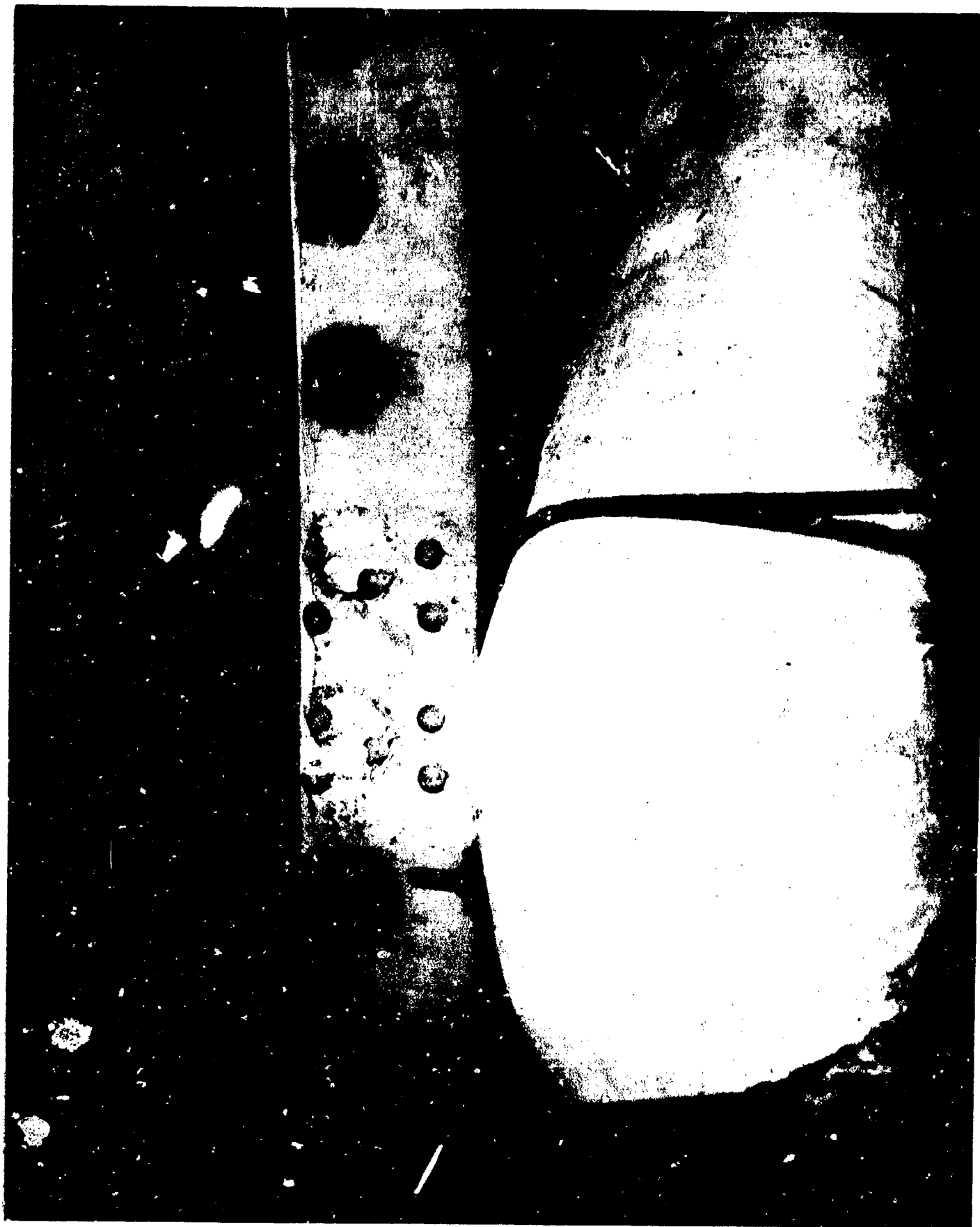
AB-CF-68-2982-7. Forward engine room. Looking aft at 30' transverse girder under second deck, frame 64, starboard. Showing failure of web in way of lightening holes in region of connection to centerline longitudinal girder.

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AB-CR-68-1691-1. Distortion of web of longitudinal girder below second deck (third longitudinal to port of centerline) just forward of frame 64. Forward engine room.

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AB-CR-68-2982-8. Forward engine room. Vertical deflections scratch extending from innerbottom to second deck at frame 64 1/2, centerline. Gage indicates 1/2" relative deflection and return.

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AB-CR-68-1689-2. Closeup of vertical channel shown in 1689-1 showing shear of connection bolts. Frame 68, near centerline column, see photograph 1689-1 (forward engine room).

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AB-CR-68-1689-1. Vertical deflection scratch gage, frame 68, near 12" x 3/8" centerline column between tank top and second deck. Forward engine room. Scratch on gage indicated approximately two 3/4" deflections. See also 1689-2.

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AB-CR-68-1689-3. Failure of second deck girder, frame 68, about 6' to starboard of centerline looking forward.

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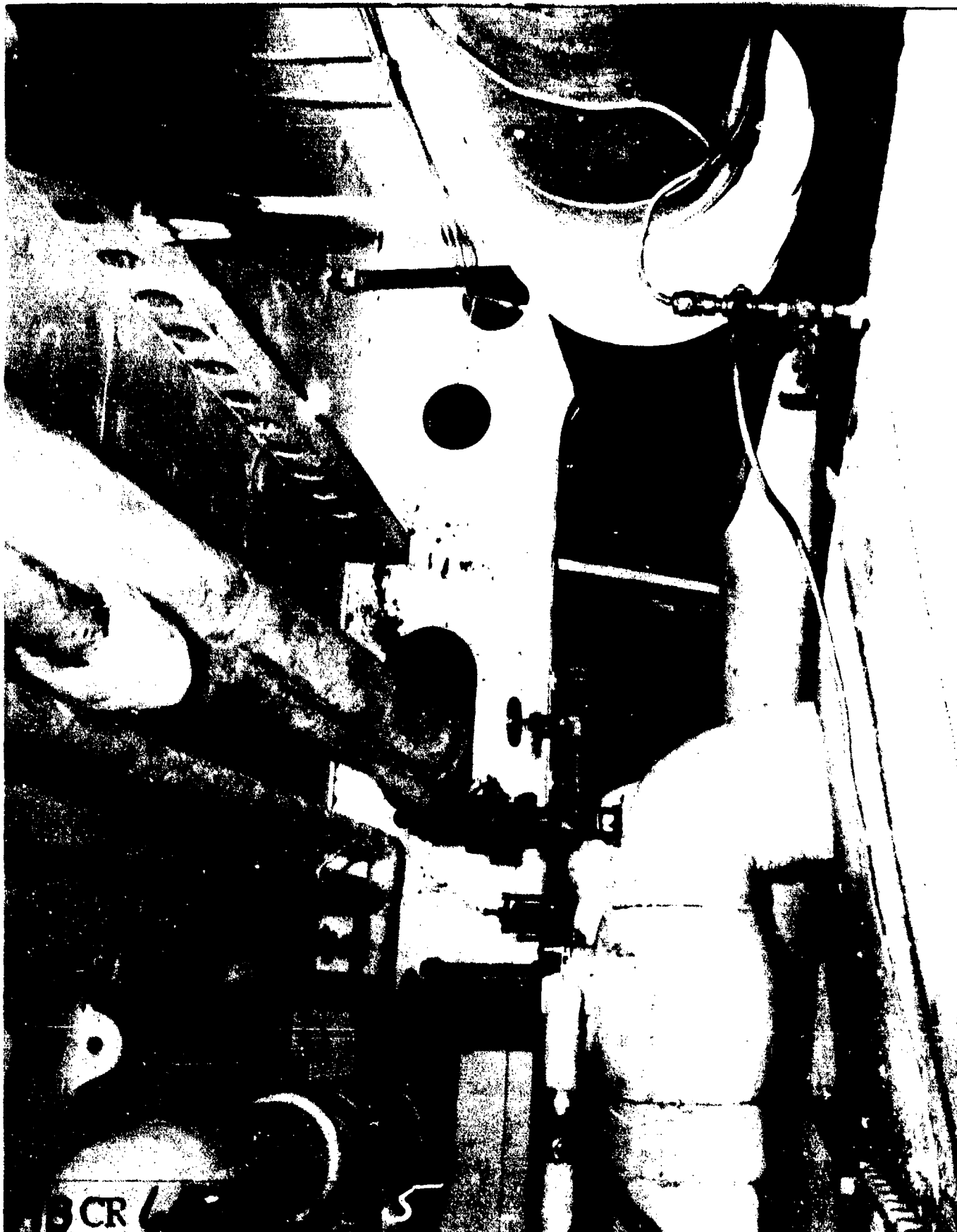
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AB-CR-68-2982-10. Forward engine room. Looking aft at 30" transverse girder under second deck at frame 68, port. Showing failure of web in way of lightening holes and cutouts for longitudinal deck girders near centerline.

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AB-CR-68-2982-5. Forward engine room. Looking aft at 30' transverse girder under second deck frame 68 starboard. Showing failure of web in way of lightening holes and cutout for first longitudinal girder outboard of centerline girder.

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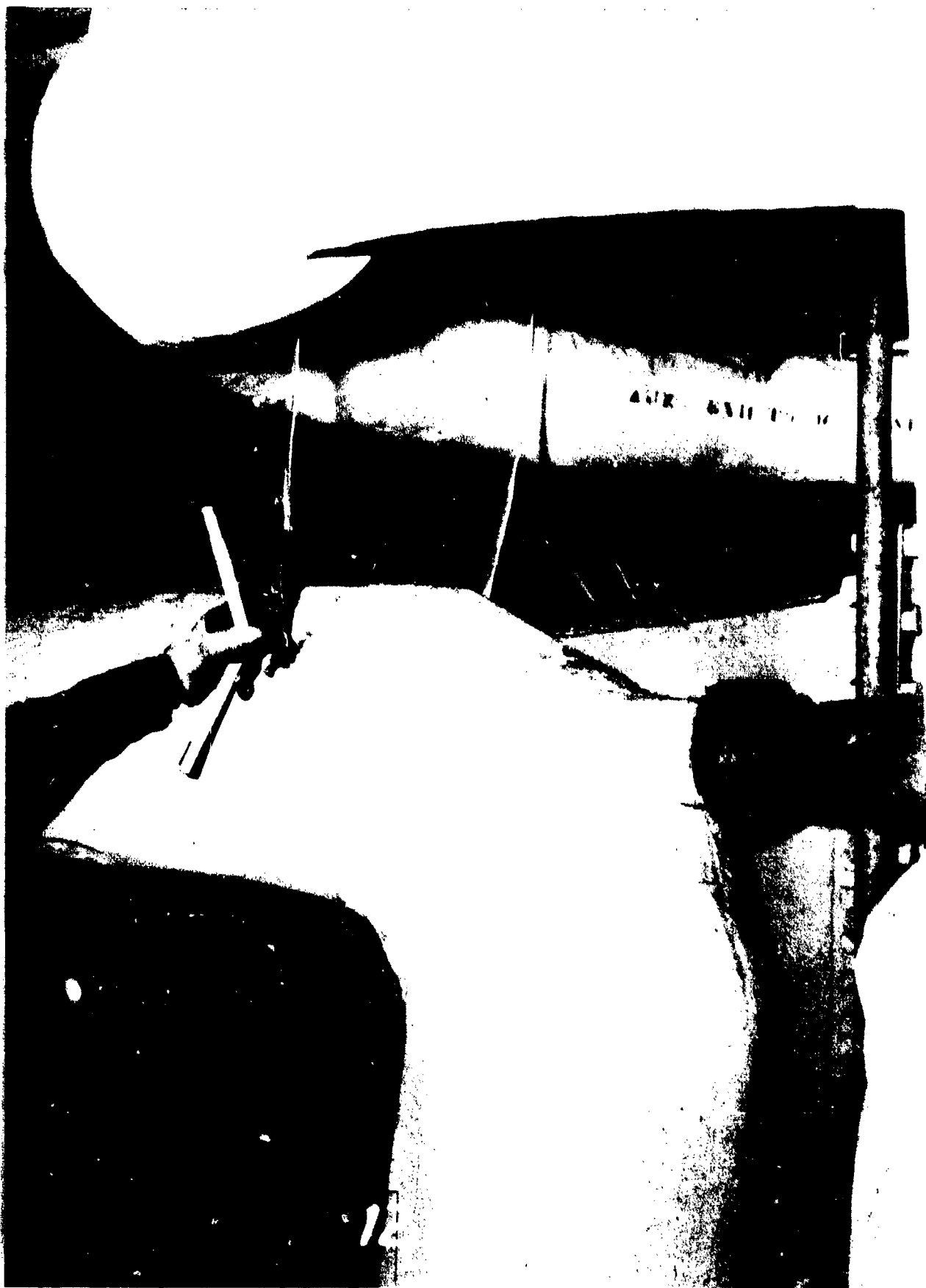
AB-CR-68-1690-10. Forward engine room - centerline at frame 69, showing approximately 3" downward movement of steam line, looking up to starboard and forward.

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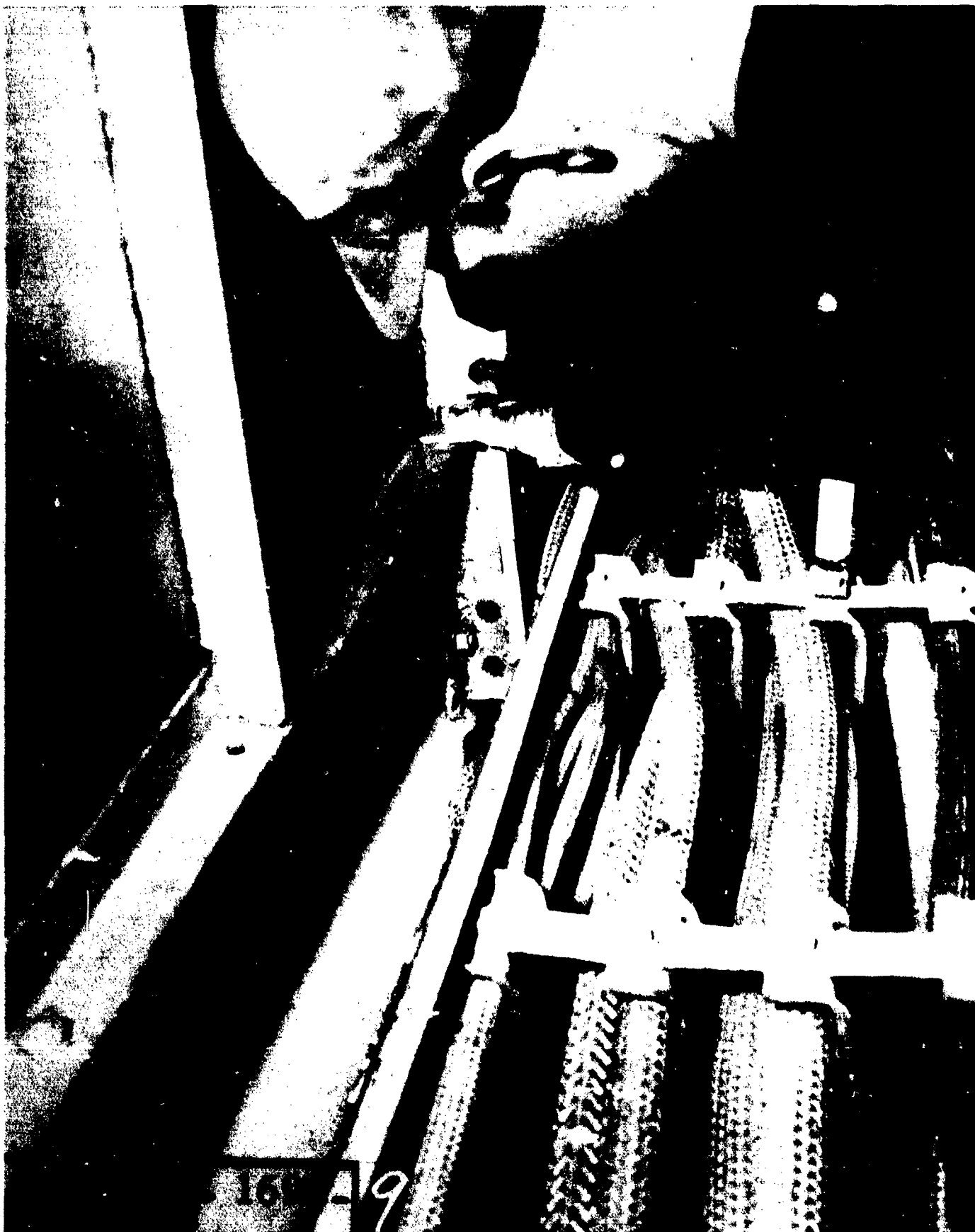
AB-CR-68-1690-12. Forward engine room - frame 68, ventilation duct hanger strap failure just above No. 4 astern turbine.

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AB-CR-68-1690-9. Forward Engine room. Starboard side, frame 70.
Showing failure, due to sheering of bolts, of upper platform connection.

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AB-CR-68-1691-11. Forward engine room showing slight bulge near base of 12" x 3/8" column, frame 68, centerline extending from inner bottom to second deck looking to starboard.

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AB-CR-68-1690-11. Forward engine room - cracks in No. 4 astern turbine foundation casting - looking to port.

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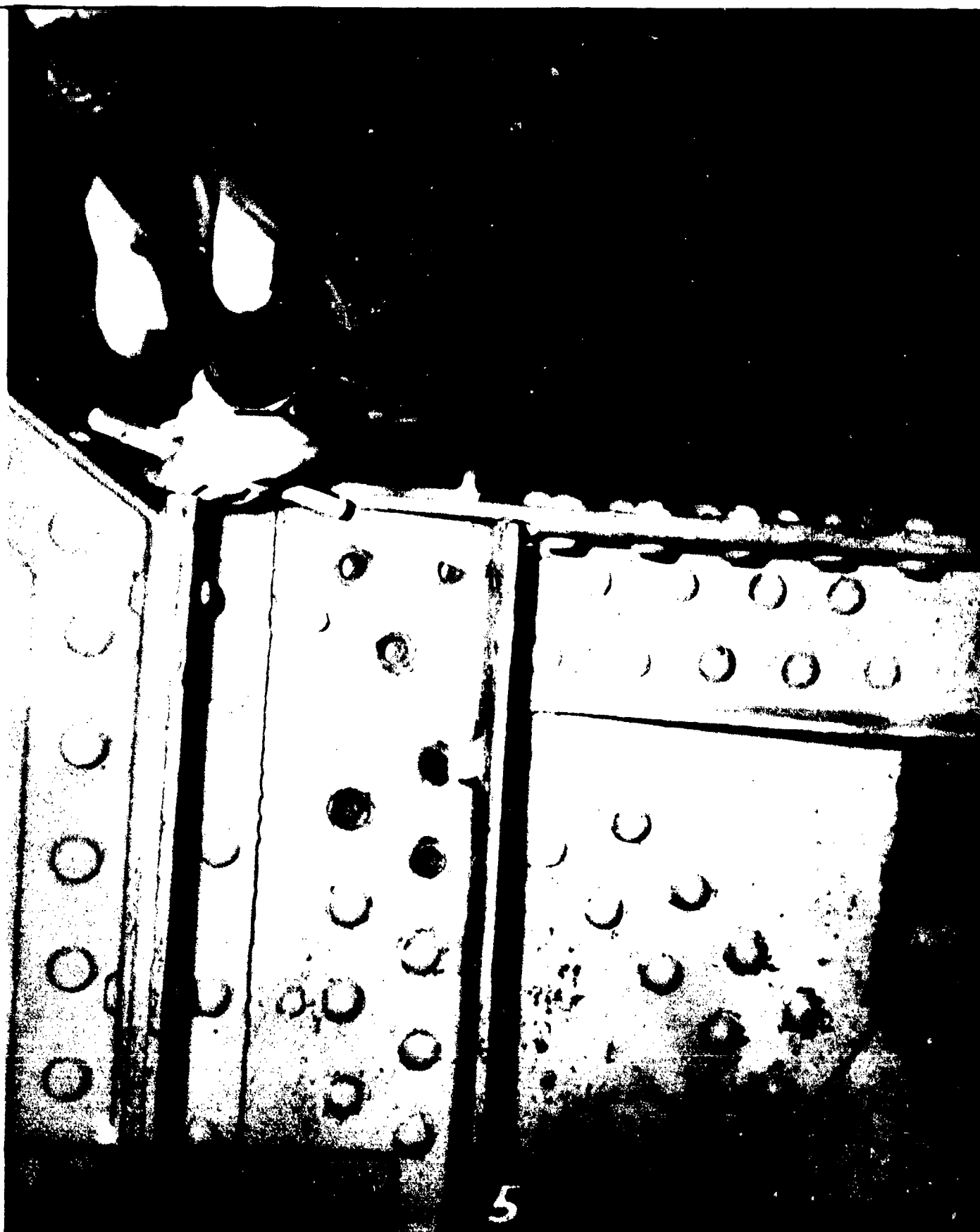
AB-CR-68-1690-8. Forward engine room - crack in foundation of No. 1 astern turbine.

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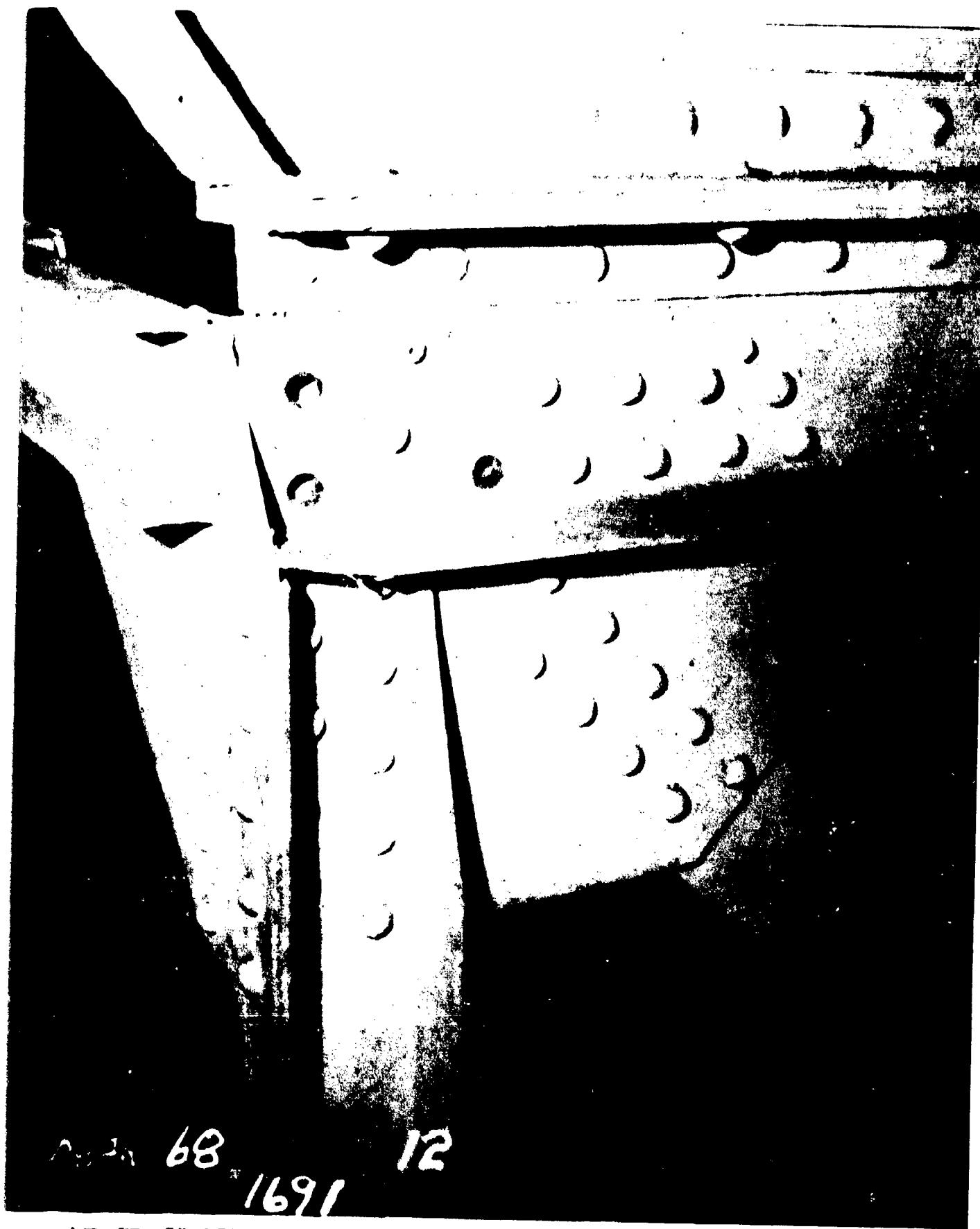
AB-CR-68-1691-5. Forward engine room, port main condenser foundation. Damage to forward end of foundation, port corner, looking aft.

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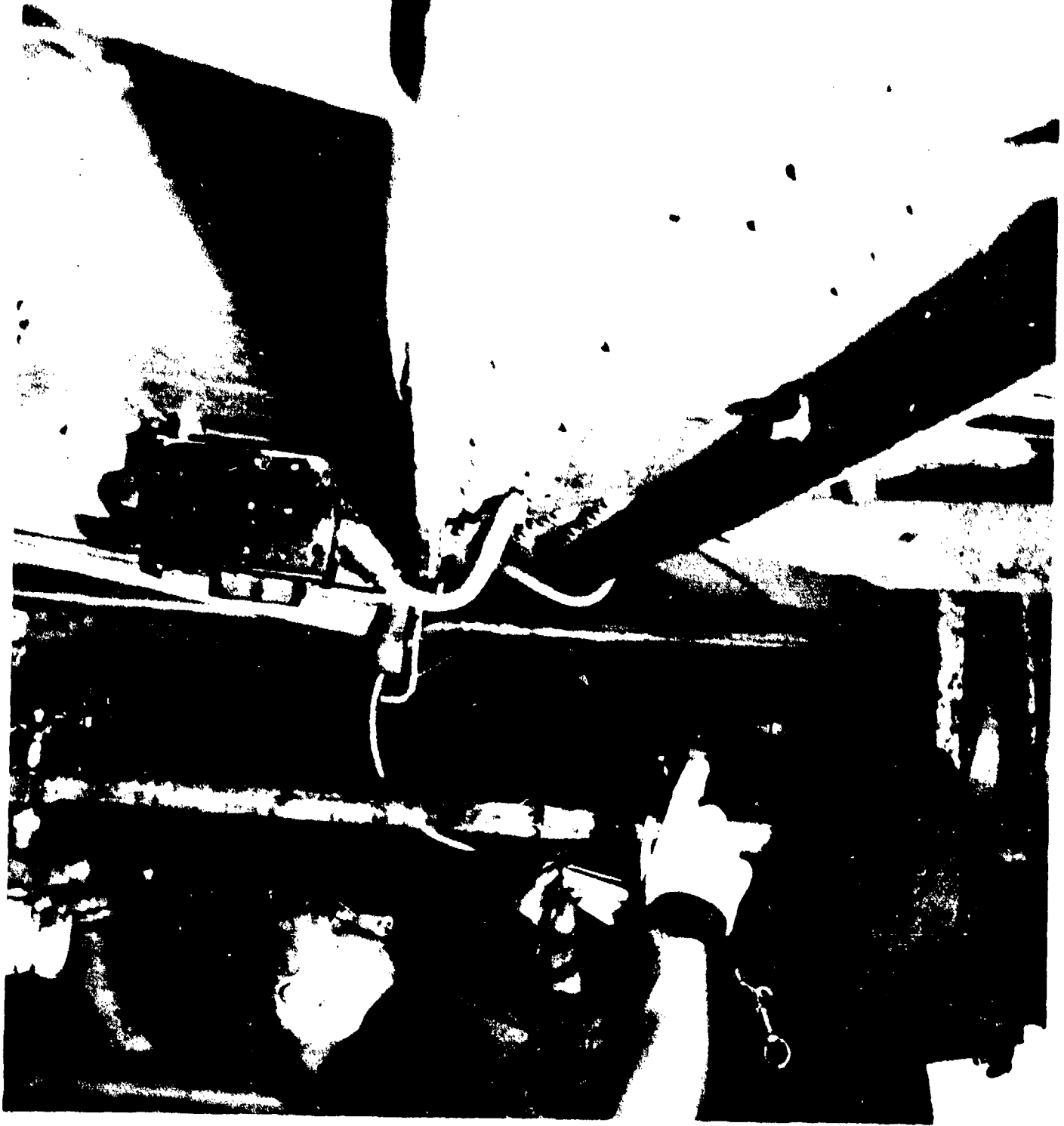
AB-CR-68-1691-12. Forward engine room, starboard main condenser foundation looking aft at starboard corner of forward end of foundation.

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AB-CR-68-1691-6. Forward engine room, port main condenser foundation. Looking to starboard along forward end of foundation.

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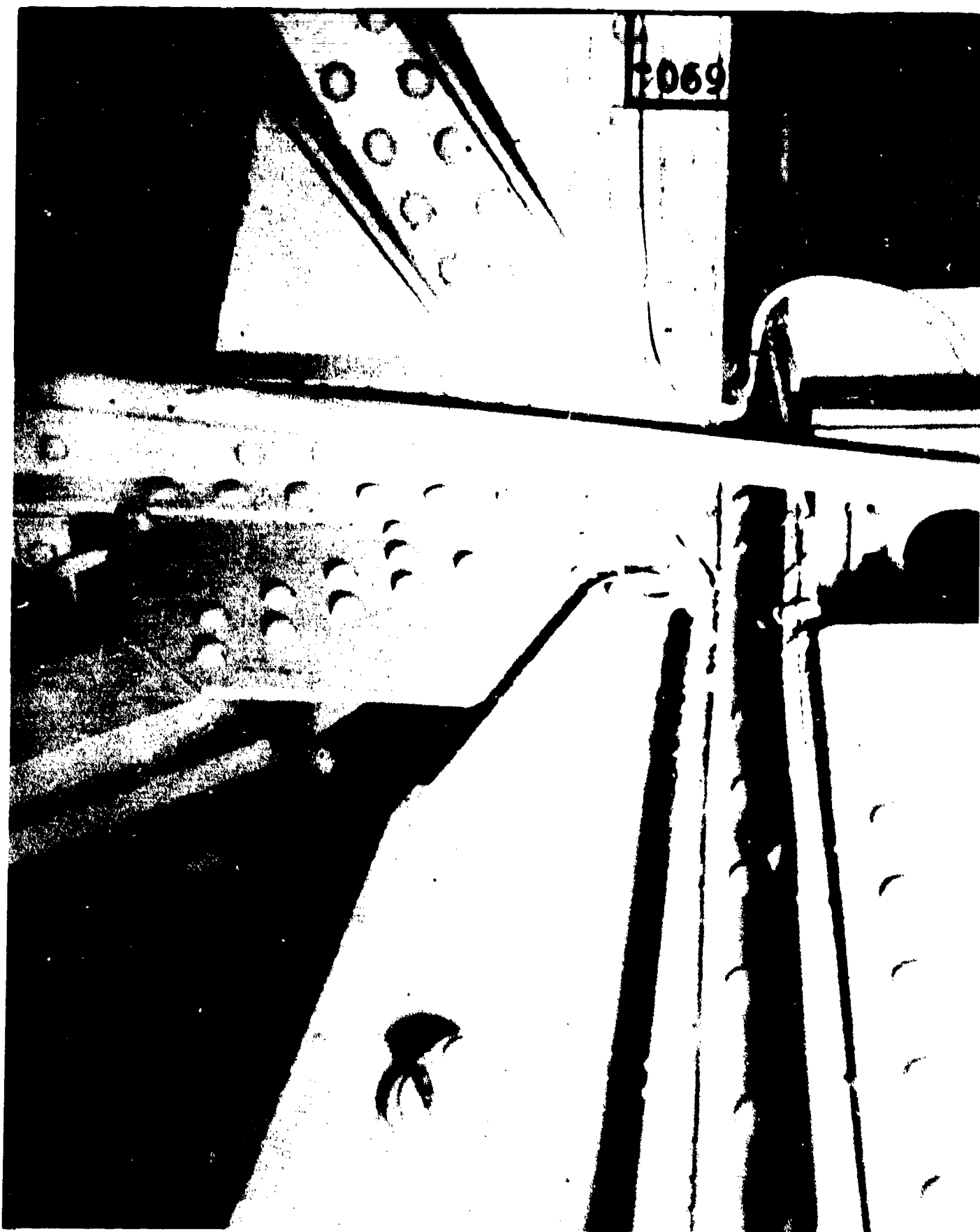
AB-CR-68-1691-7. Forward engine room, port main condenser foundation
Interior view looking forward towards port after face of forward end of
foundation.

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AB-CR-68-1690-1. Forward engine room - interior of main condenser foundations. Frame 64, looking to port and forward at centerline vertical brace.

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AB-CR-68-1691-10. Forward engine room, port main condenser foundation.
Looking forward at port after corner of foundation.

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AB-CR-68-1691-8. Forward engine room, port main condenser foundation.
View of port corner of forward face of after end of foundation.

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AB-CR-68-1690-3. Forward engine room - exterior of starboard after corner of starboard main condenser foundation, frame 67 - looking to port and down from turbine casing.

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AB-CR-68-1690-2. Forward engine room - interior of starboard after corner of starboard main condenser foundation, frame 67 - looking to starboard and slightly aft.

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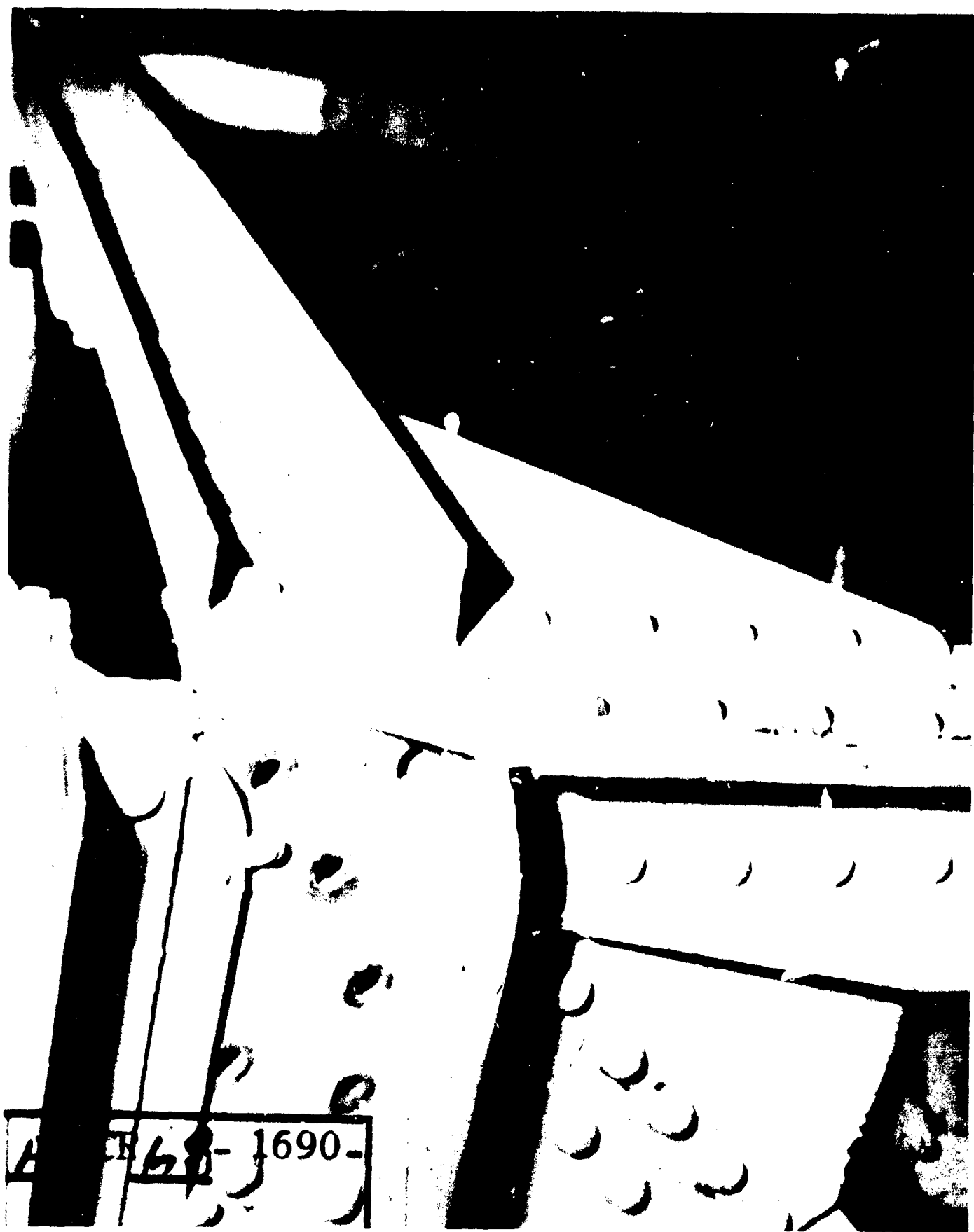
AB-CR-68-1690-4. Forward engine room - starboard after corner of starboard main condenser foundation - looking aft and to port, frame 67.

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AB-CR-68-1690-5. Forward engine room - exterior of starboard after corner of starboard main condenser foundation - looking forward and to port, frame 67.

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AB-CR-62-4164-7. Outboard casing of #3 boiler.

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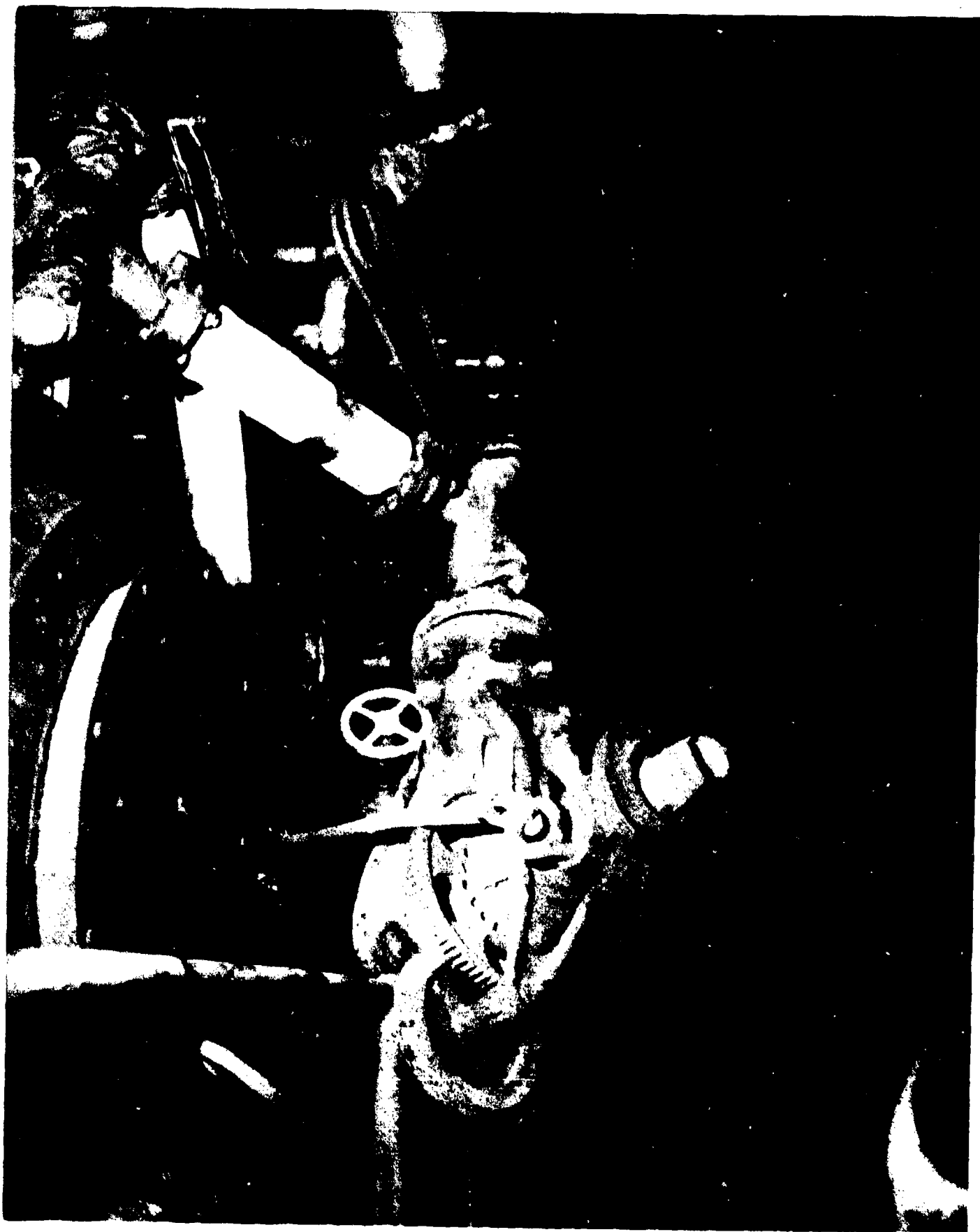
AB-CR-82-4226-10. #4 soot blower head of #8 boiler.

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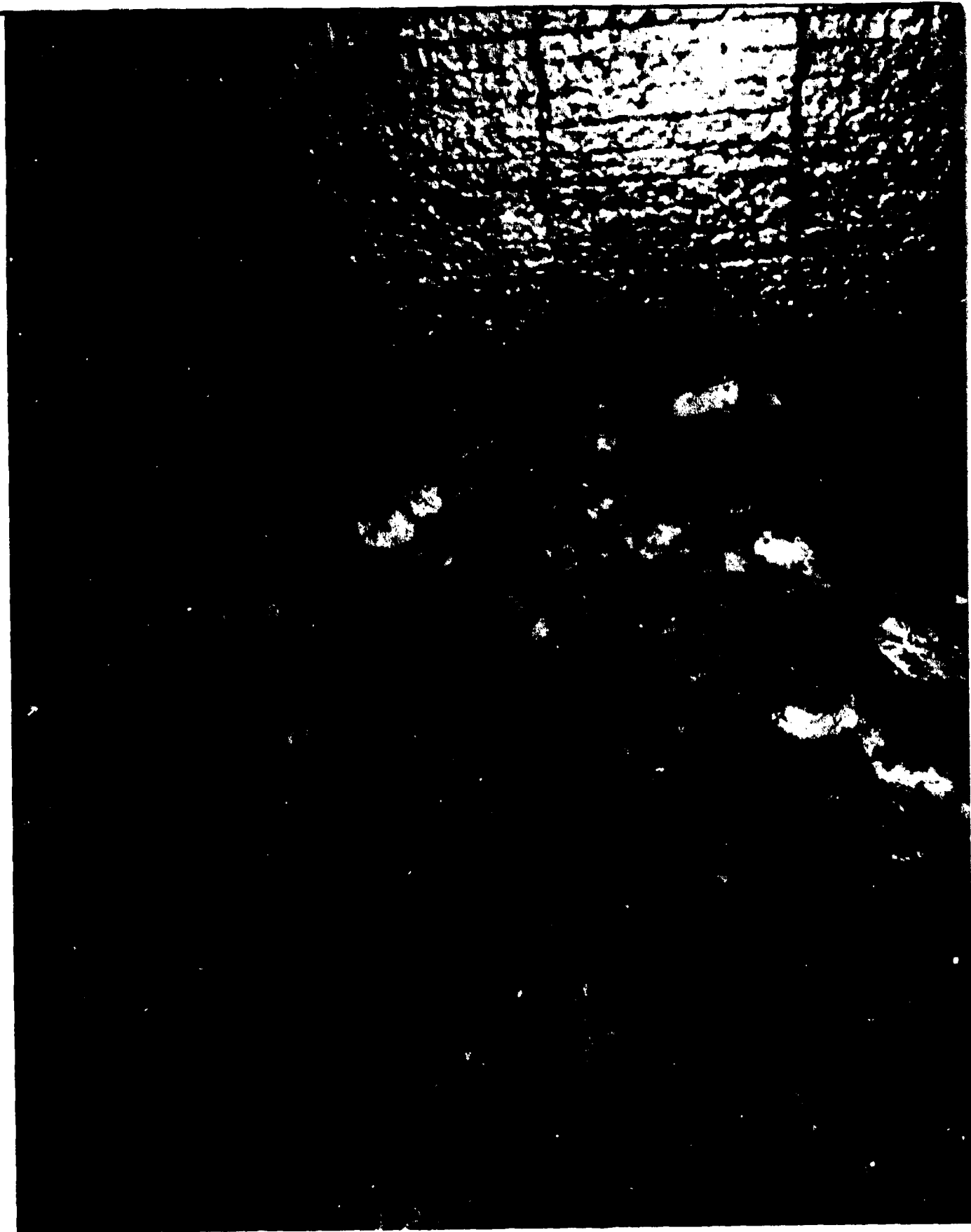
AB-CR-82-4226-11. #4 soot blower head of #8 boiler.

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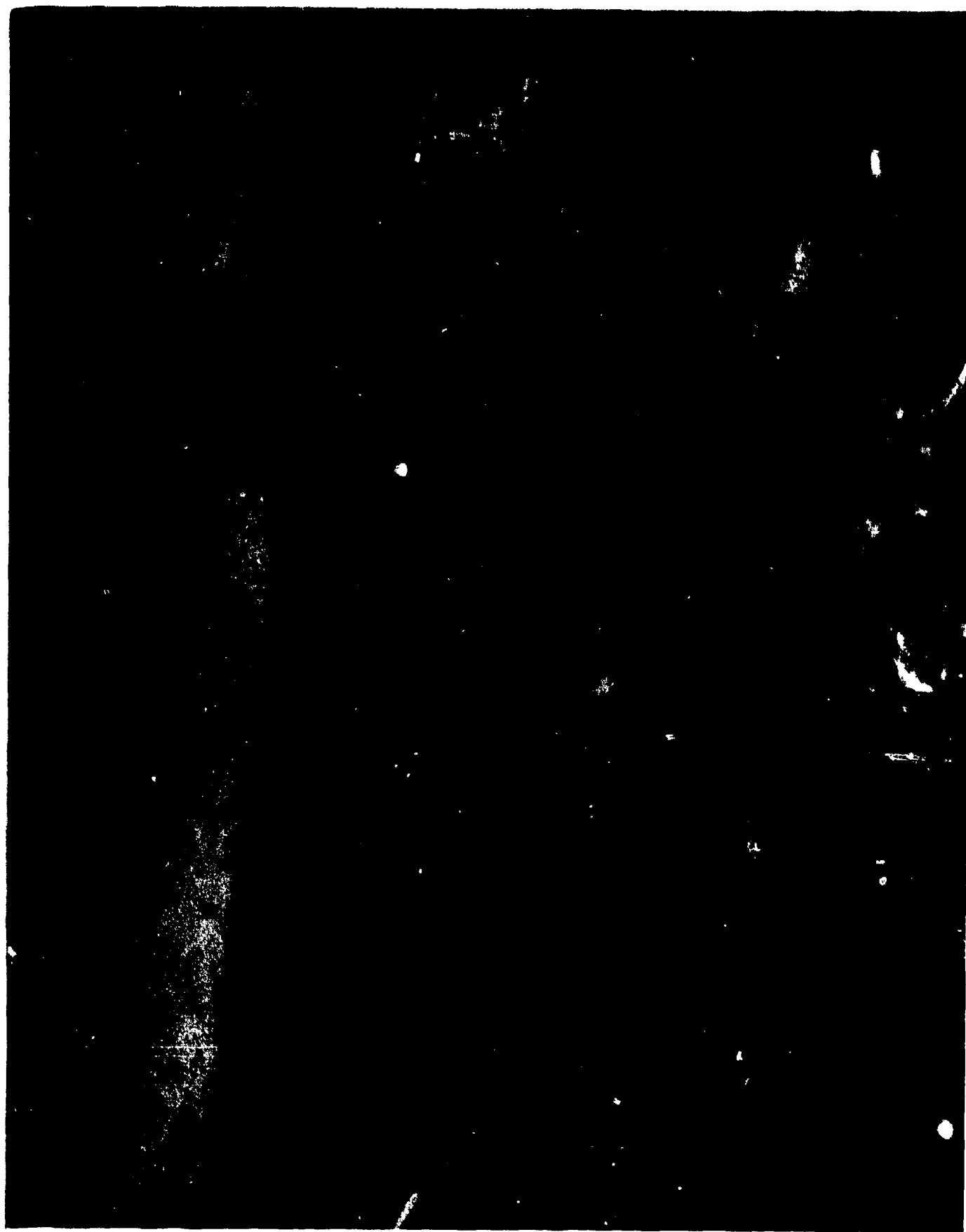
AB-CR-62-4165-12. #2 boiler floor of furnace, showing dislodged floor brick.

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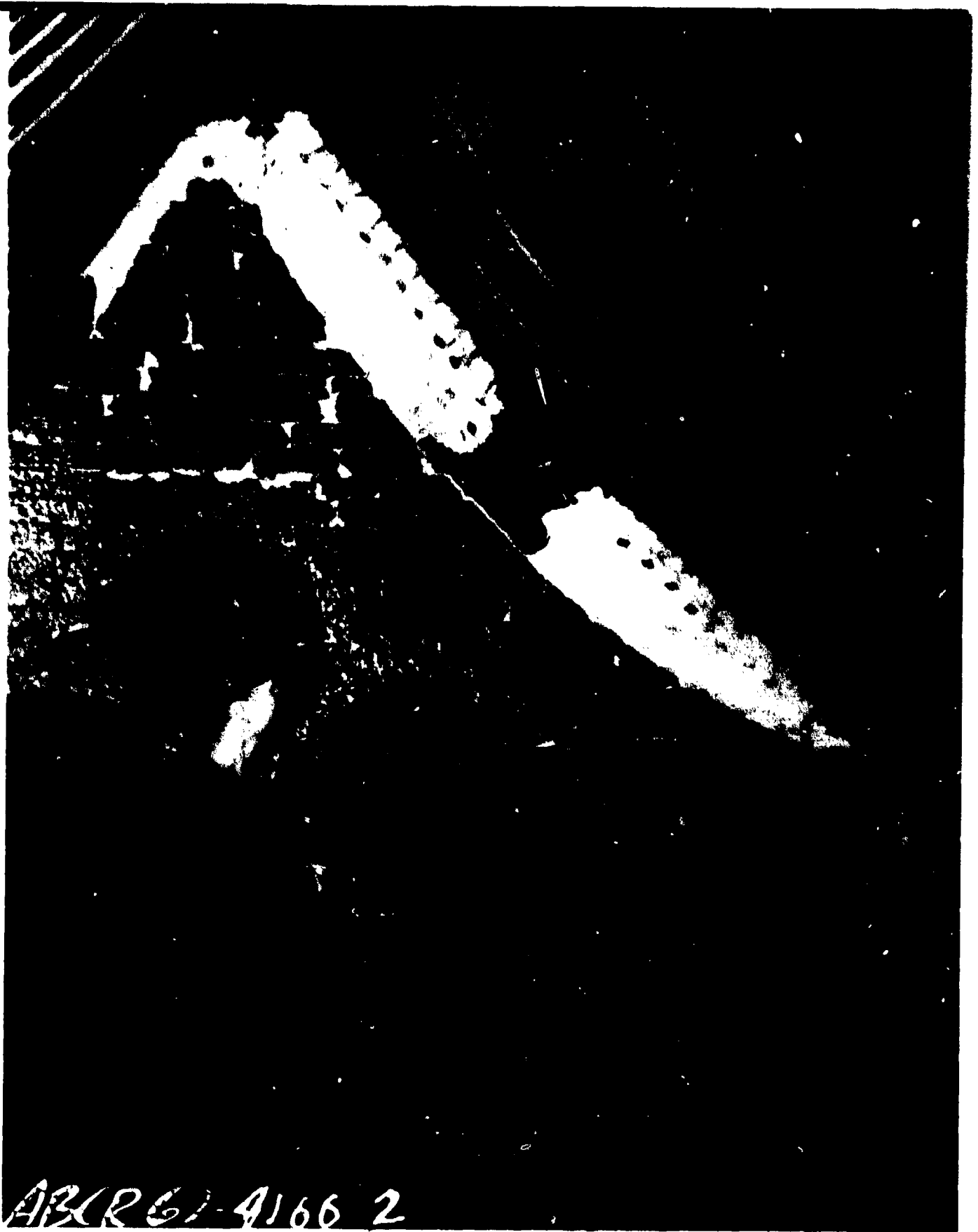
AB-CR-62-4166-1. #2 boiler brickwork, outboard rear corner.

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AB-CR-62-4166-2. #2 boiler front wall

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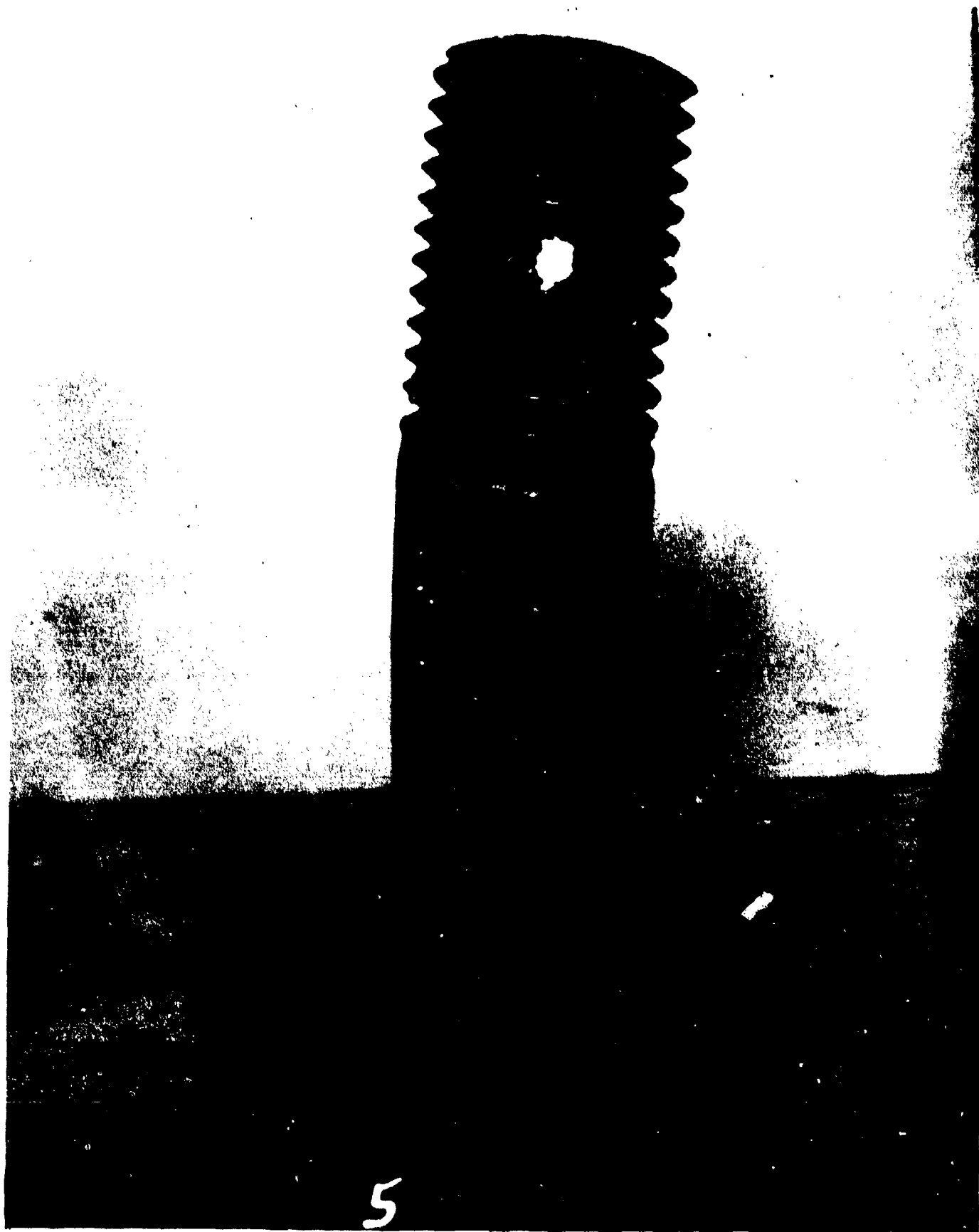


AB-CR-62-4164-8. #3 boiler, aft saddle, outboard.

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AB-CR-79-4085-5. #3 boiler holding down bolt.

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AB CR 29 4085 -

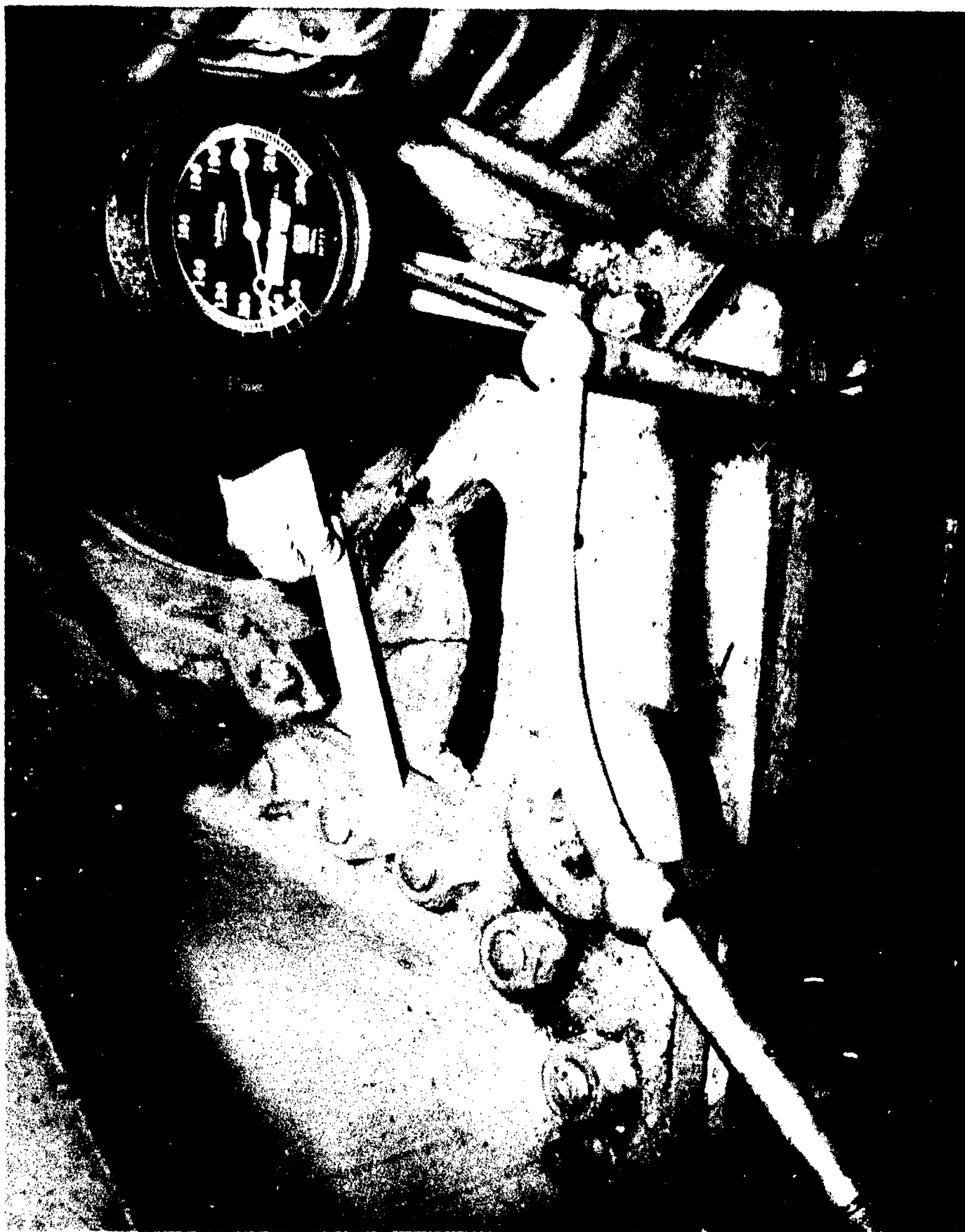
AB-CR-79-4085-6. #3 boiler holding down bolt.

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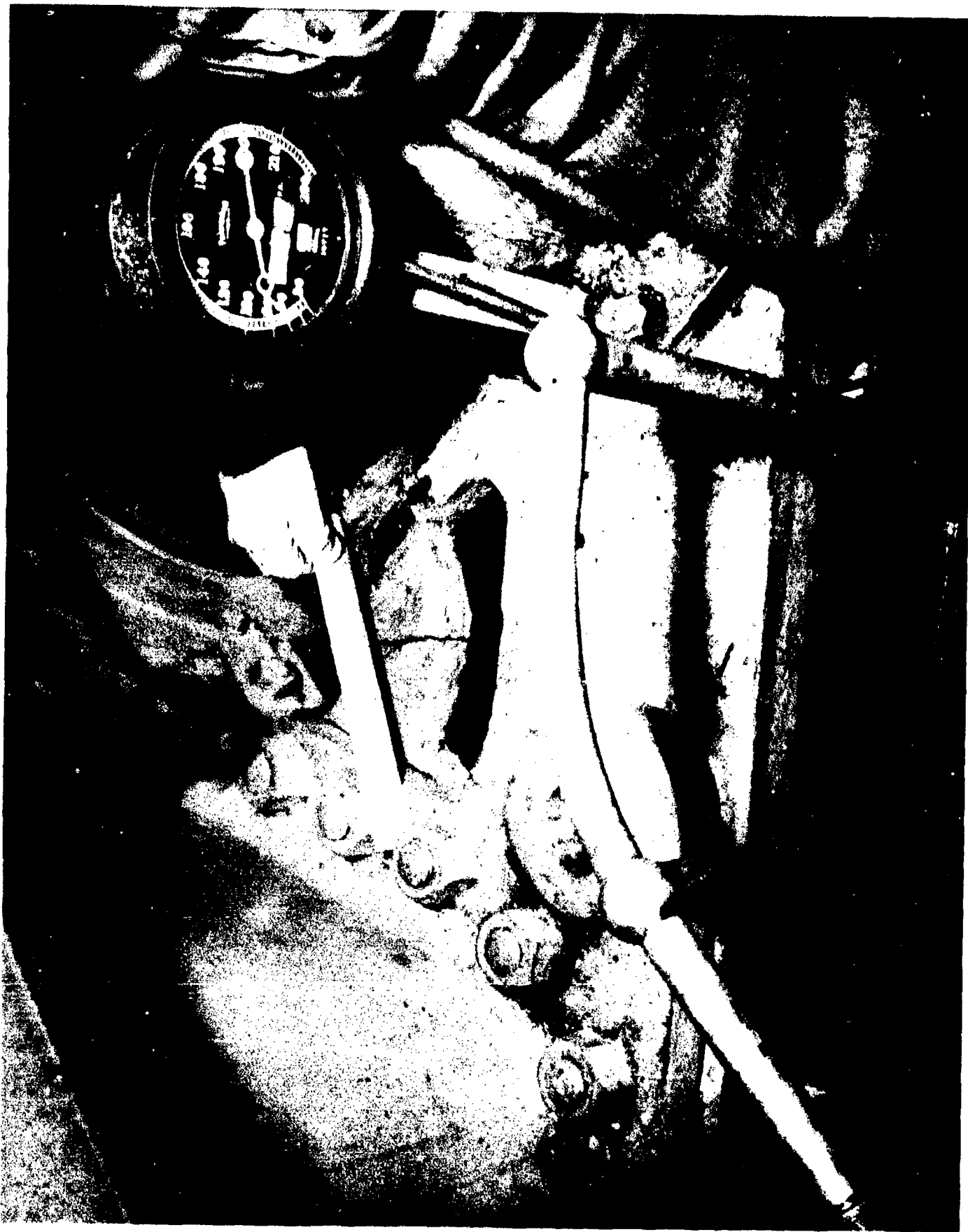
AB-CR-82-4226-1. #1 L. P. turbine, aft end, looking down on web showing crack.

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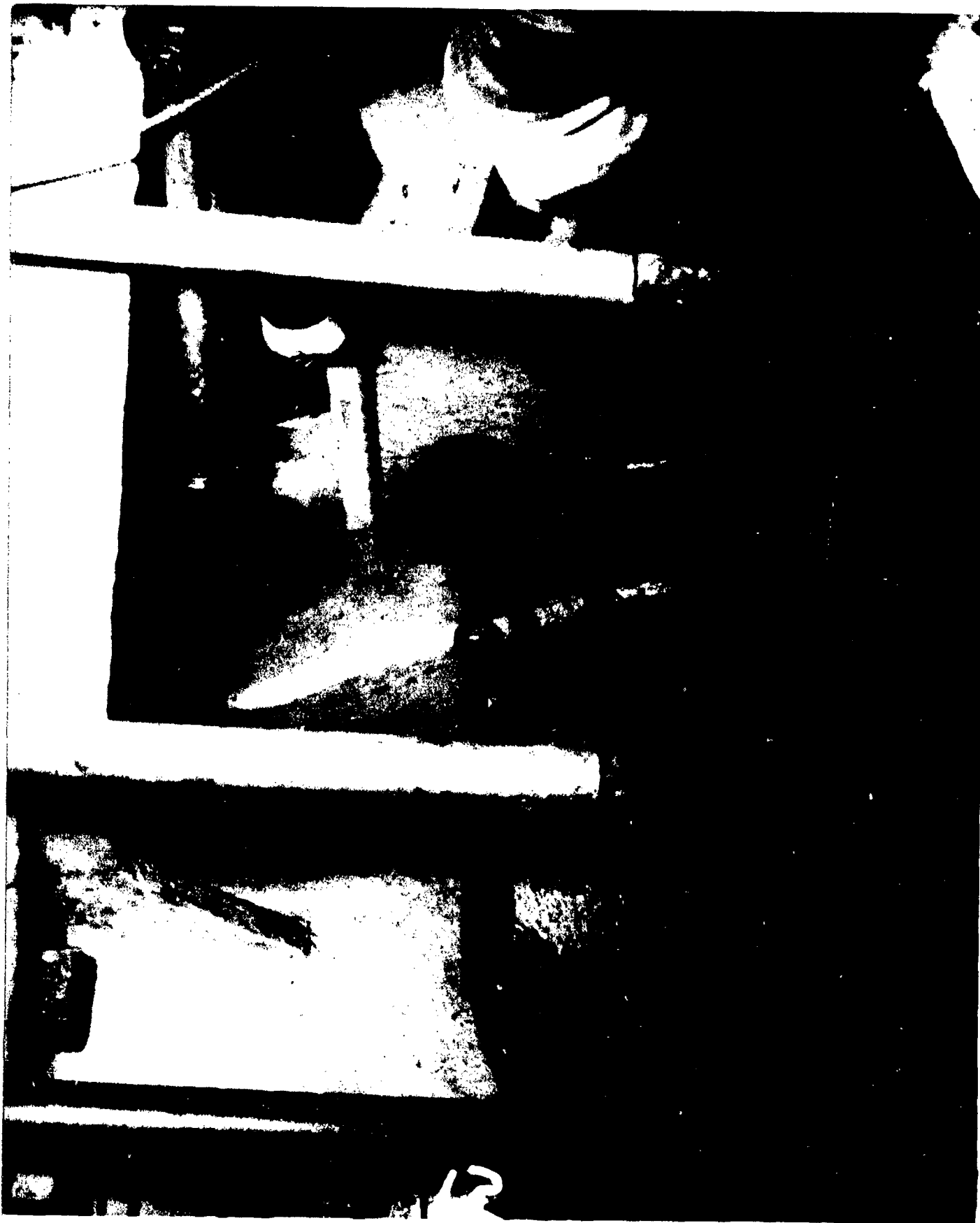
AB-CR-82-4226-1. #1 L. P. turbine, aft end, looking down on web showing crack.

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AB-CR-82-4225-12. #1 L. P. turbine, aft end, showing crack and break in casing and mounting feet.

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AB-CR-82-4226-2. #1 L.P. turbine looking to starboard, showing break and crack in aft end casing and mounting feet.

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AB-CR-82-4226-3. #1 L. P. turbine, crack in astern casing.

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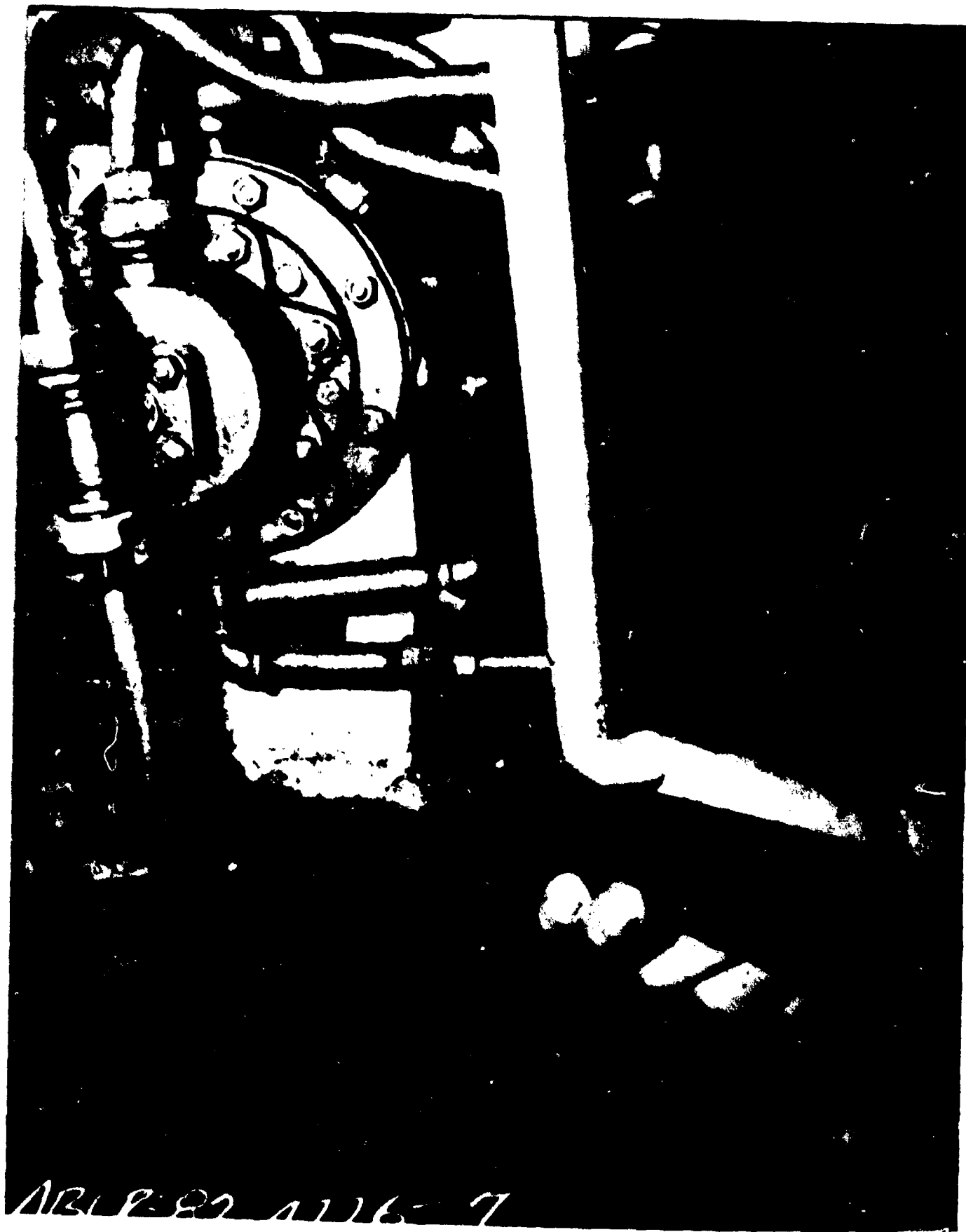
AB-CR-82-4225-8. #4 broken pedestal, cruising turbine, reduction gear.

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AB-CR-82-4226-7. #4 cruising turbine, forward end, showing broken foot pedestal.

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AB-CR-82-4226-6. #4 L. P. turbine (forward end) break in mounting bracket.

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AB-CR-82-4226-5. #4 L. P. turbine, aft end, looking to outboard and to port showing crack and break in turbine casing and mounting.

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AB-CR-82-4225-5. Cracked pedestal, forward bearing, #3 L. P. turbine.

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AB-CR-82-4225-7. Cracked pedestal, forward bearing, #3 L. P. turbine.

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AB-CR-82-4225-4. Cracked pedestal, aft bearing, #3 L.P. turbine.

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AB-CR-82-4225-3. Cracked pedestal, aft bearing, #3 L. P. turbine.

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AB-CR-82-4225-6. Displaced floor plates near end of #3 L. P. turbine.

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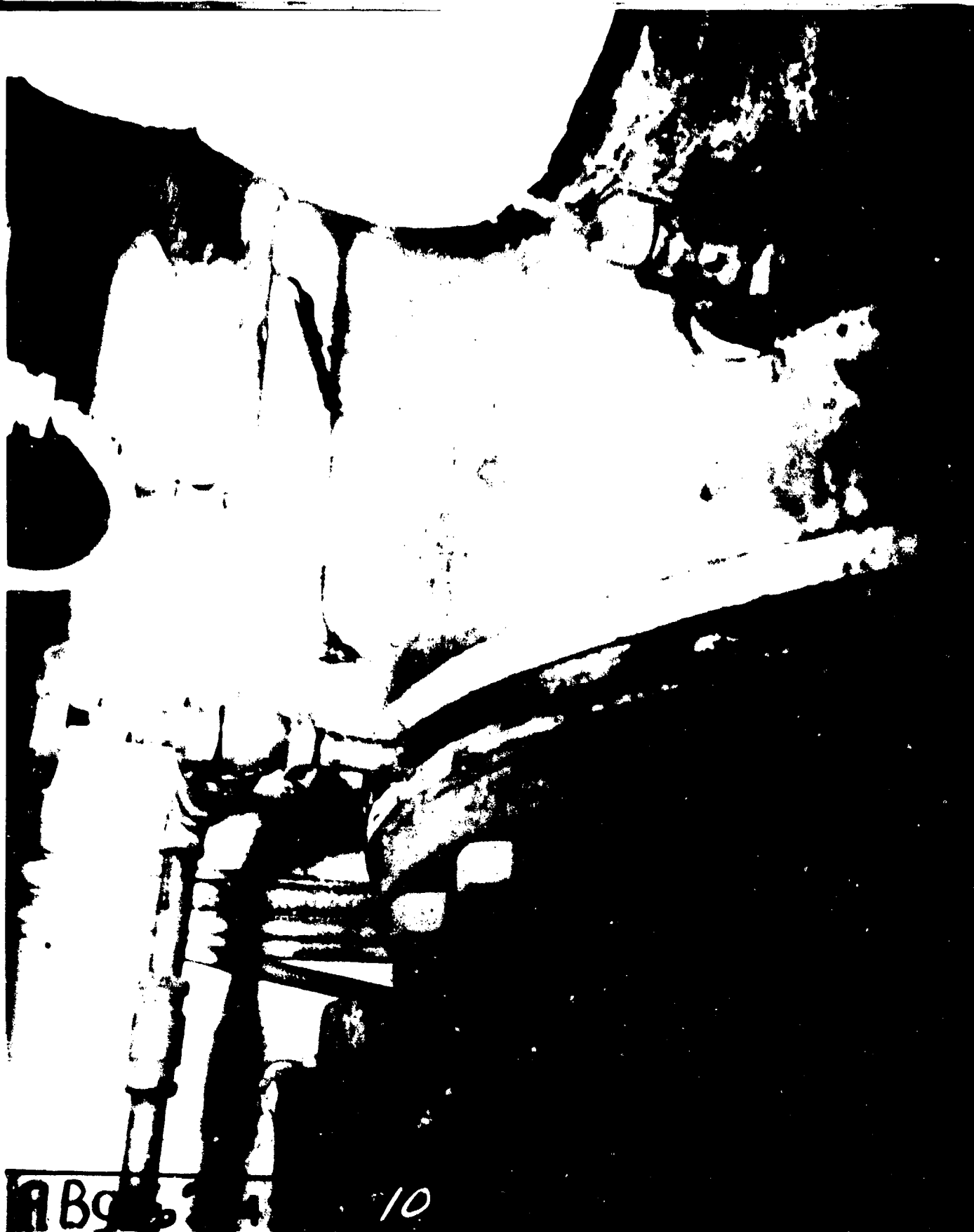
AB-CR-100-4203-1. Displaced grating, lower level in engine room.

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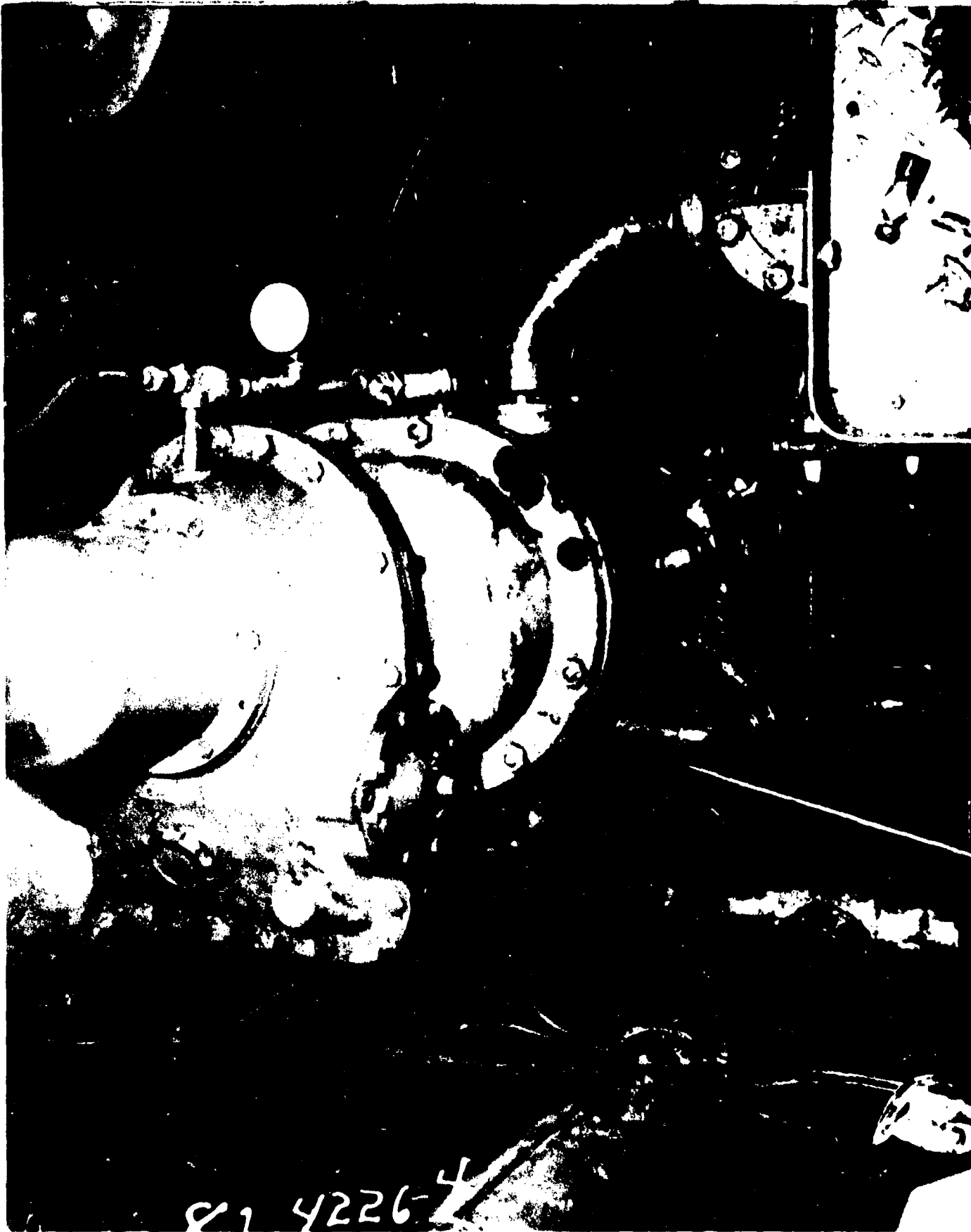
AB-CR-62-4164-10. #2 auxiliary feed pump, upper bracket.

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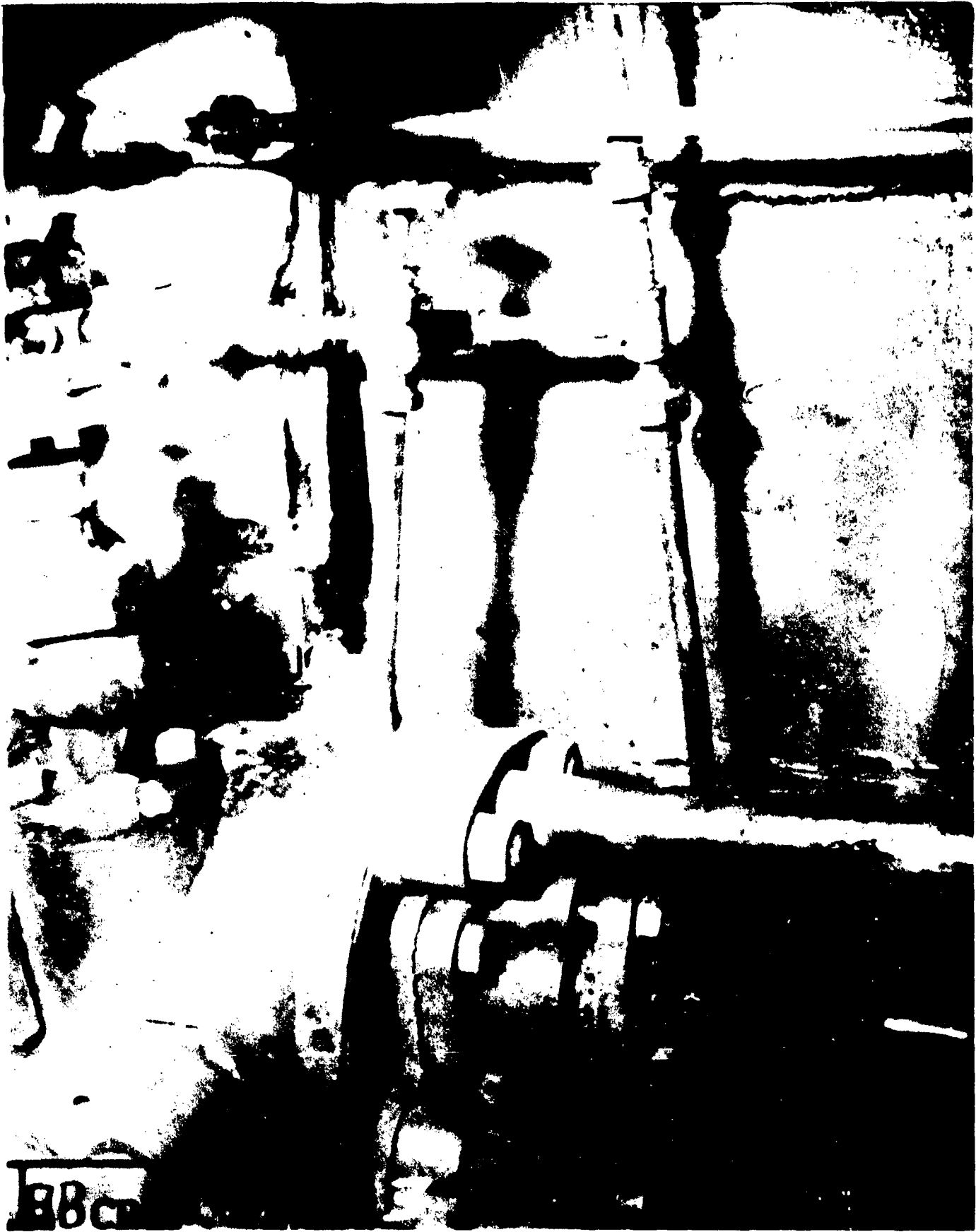
AB-CR-82-4226-4. #1 Turbine L. O. pump showing twisted discharge pipe.

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AB-CR-62-4166-3. #1 F. O. service pump showing broken upper bracket.

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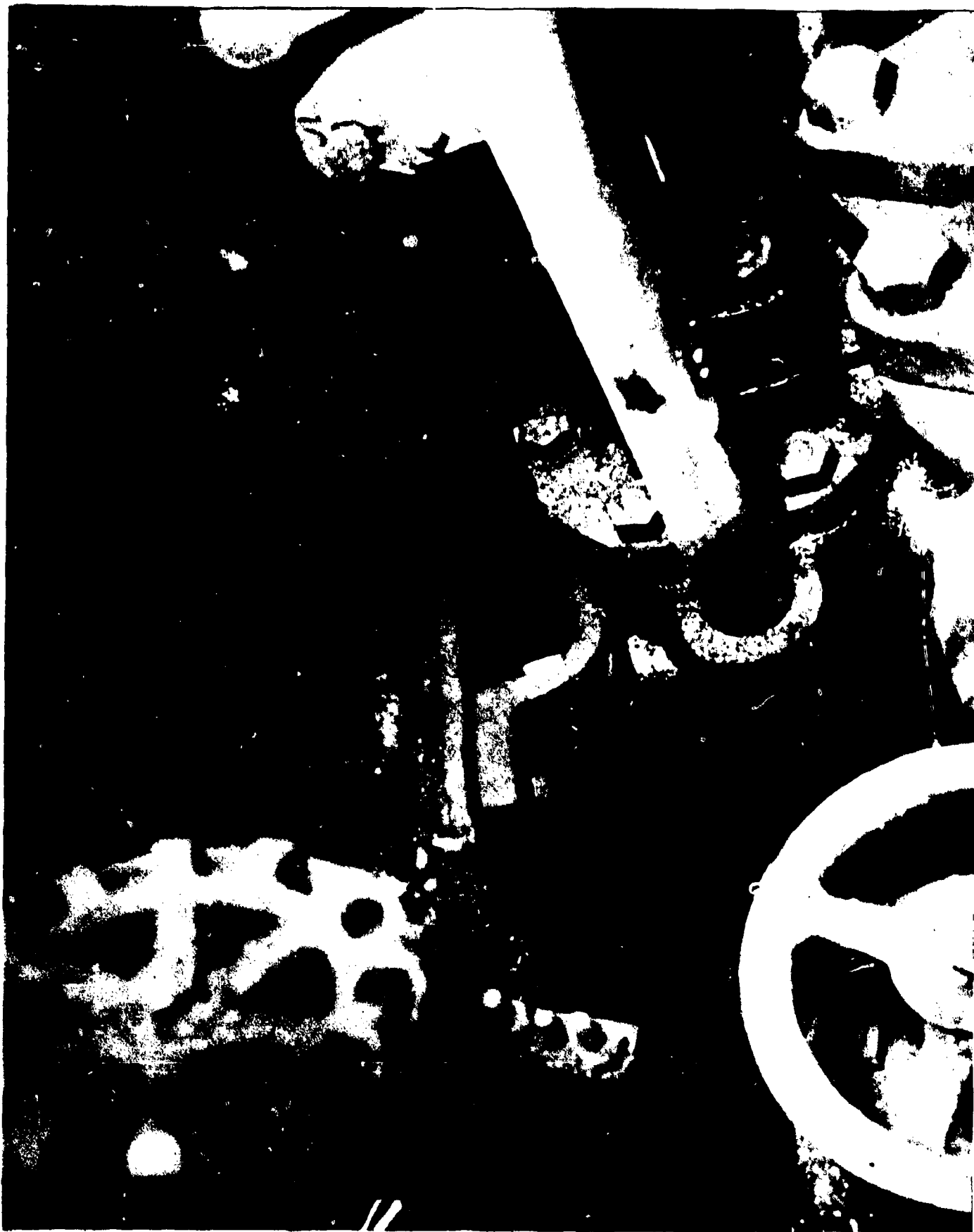
AB-CR-62-4165-1. #2 Fuel oil transfer pump, upper bracket.

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AB-CR-62-4164-11. #3 F. O. service pump, lower bracket, bolts sheared.

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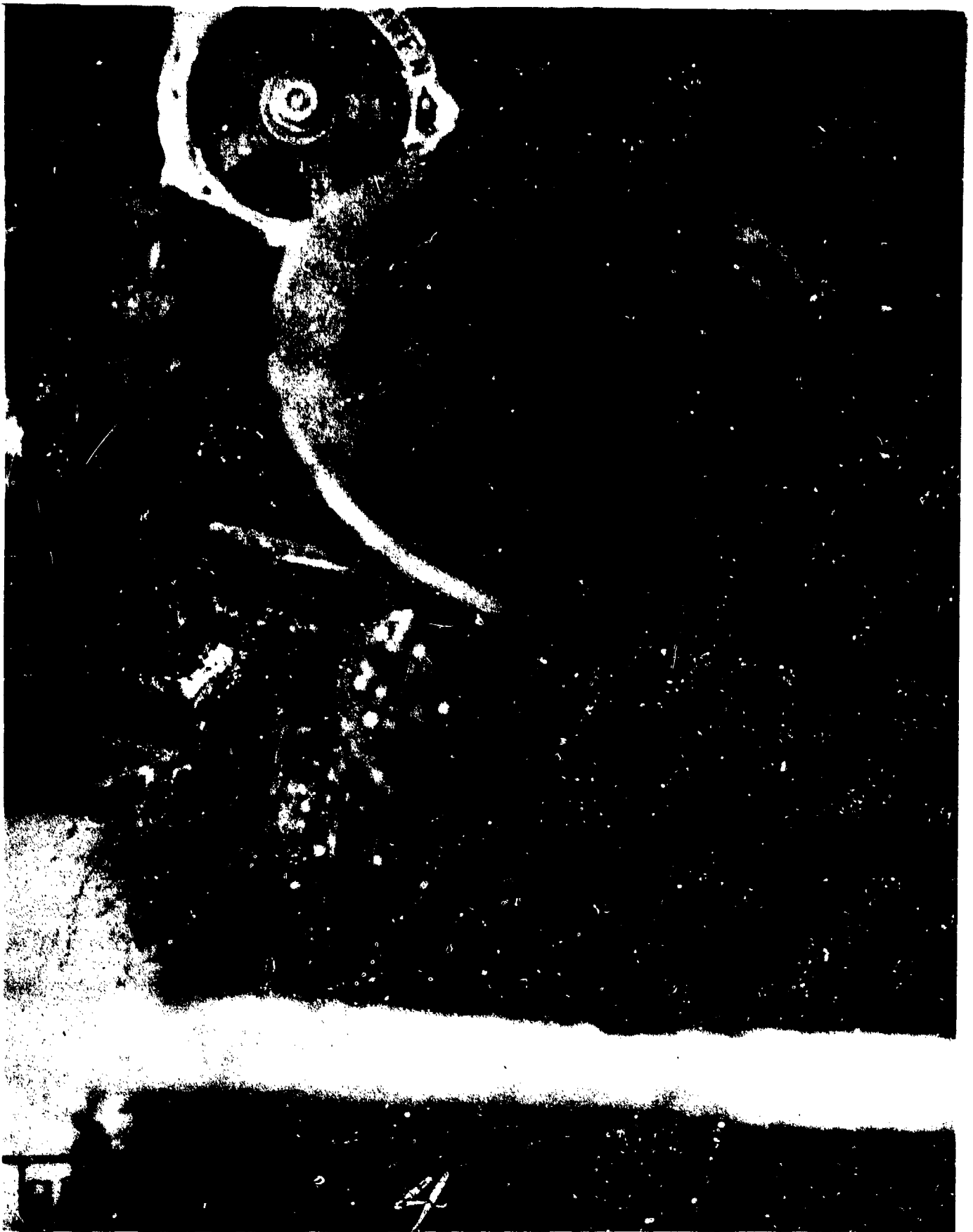
AB-CR-62-4164-12. #4 F. O. Service pump, upper bracket.

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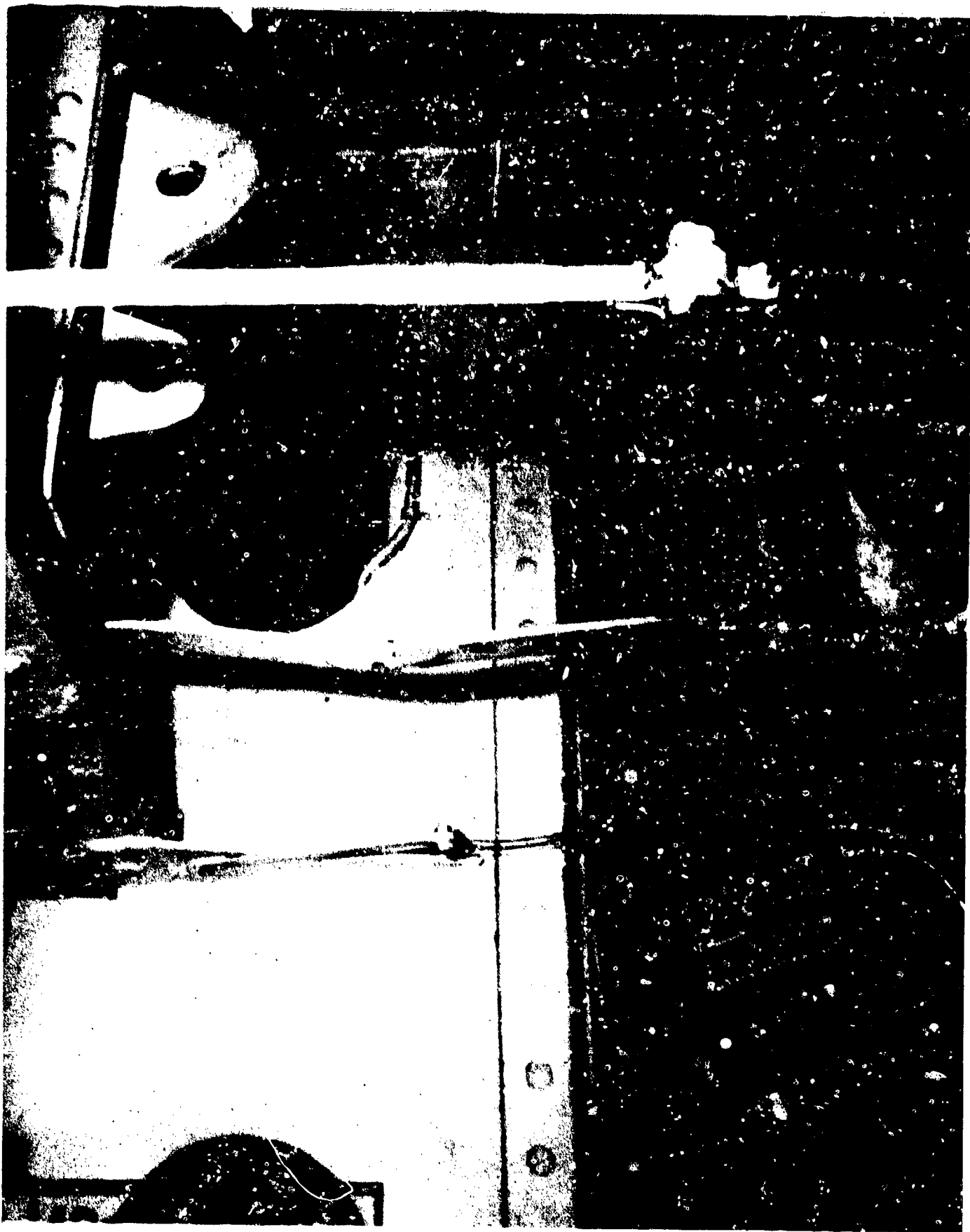
AB-CR-62-4166-4. #2 F.O. Service pump showing bracket.

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AB-CR-82-4226-9. Forward engine room, main steam hanger.

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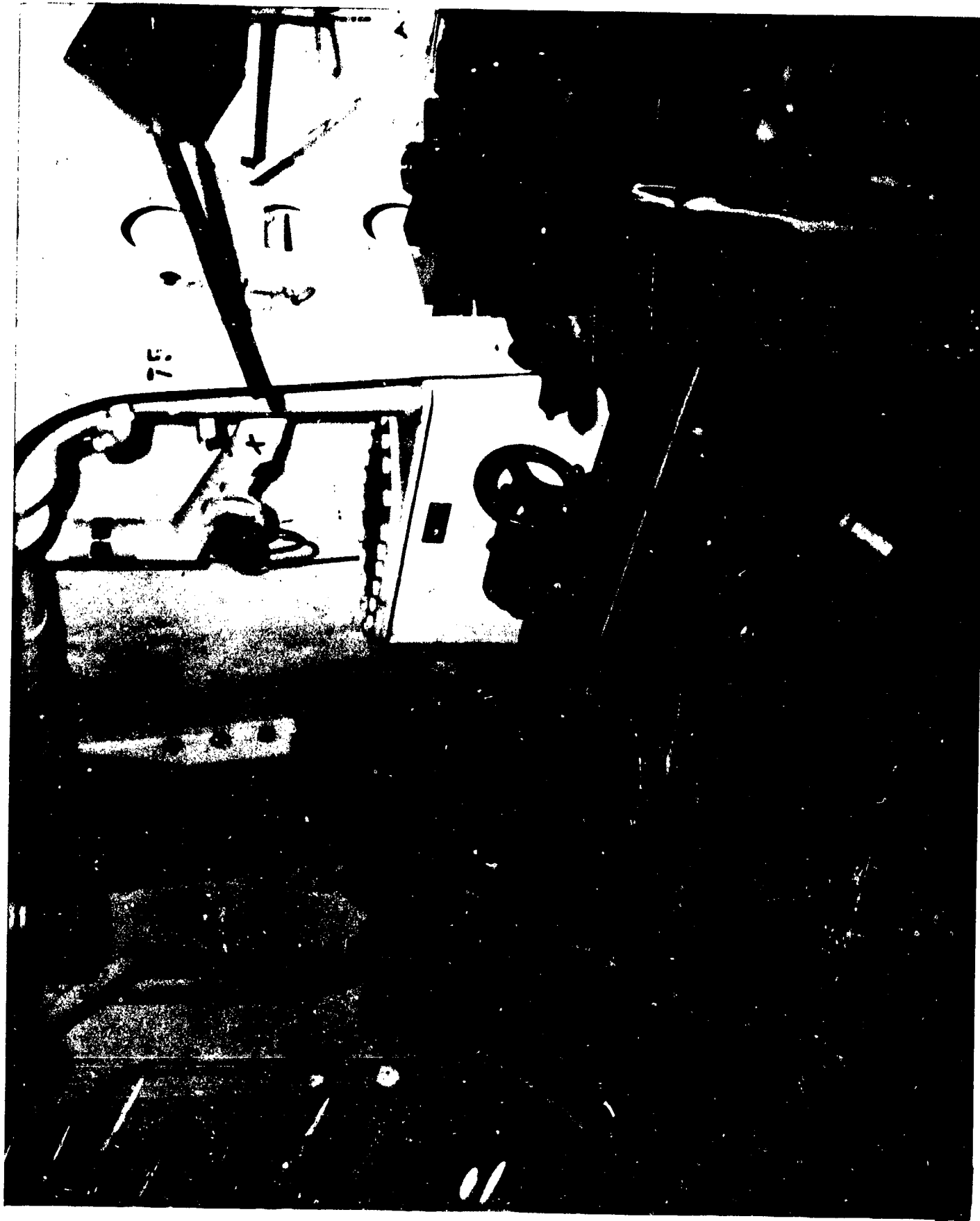
AB-CR-82-4225-10. Machine shop, damaged lathe.

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AB-CR-82-4225-11. Machine shop, damaged lathe.

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AB-CR-234-1679-10. Upper outboard (starboard) corner of the forward ship's service switchboard. Scar on bulkhead shows extent of switchboard movement. Taken from standing position on hand rail in front of the switchboard.

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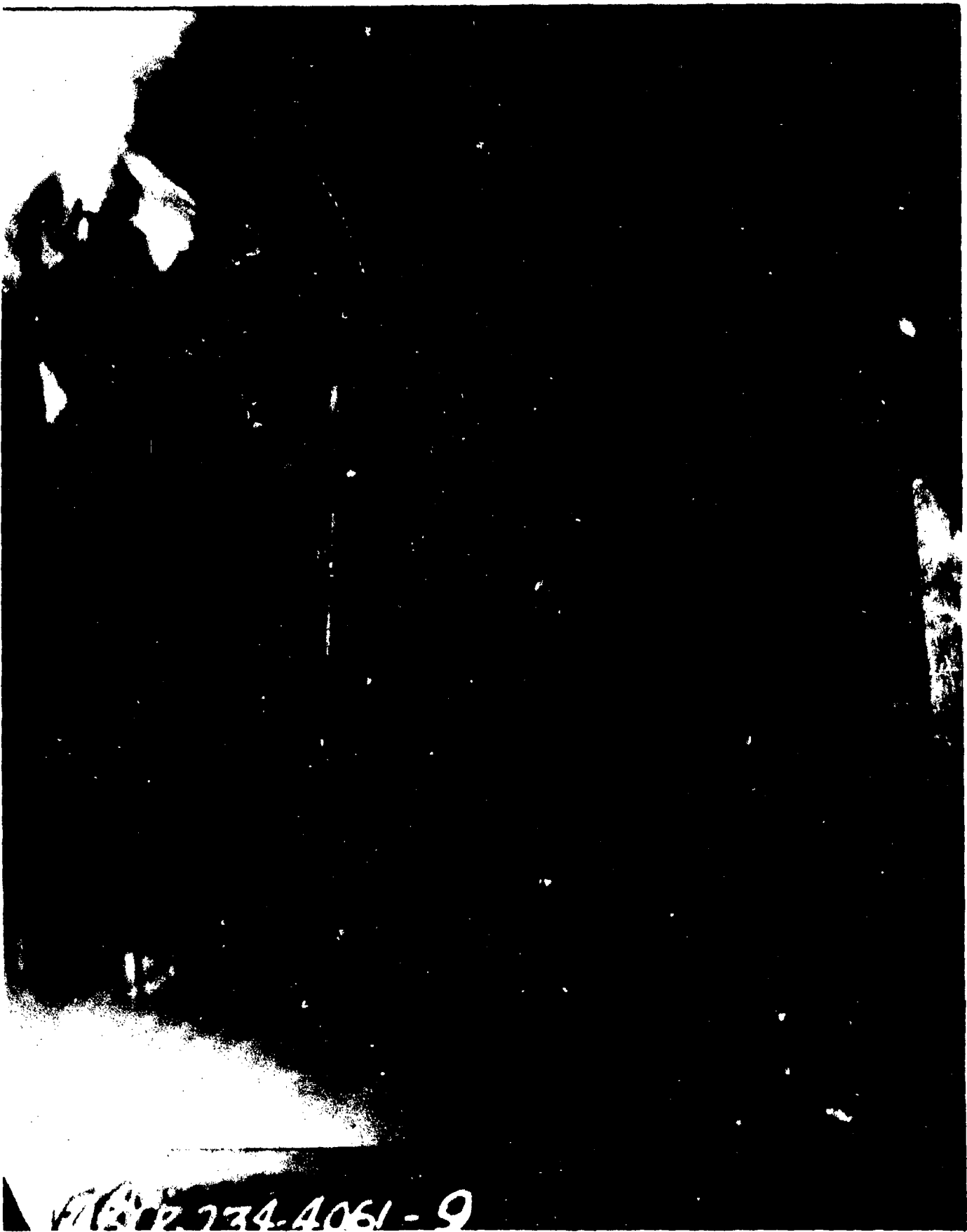
AB-CR-234-1679-12. Foundation under lower outboard (starboard) corner of forward ship's service switchboard where securing bolts sheared and support moved downward. Taken from underneath upper deck level, under the switchboard, in forward engine room.

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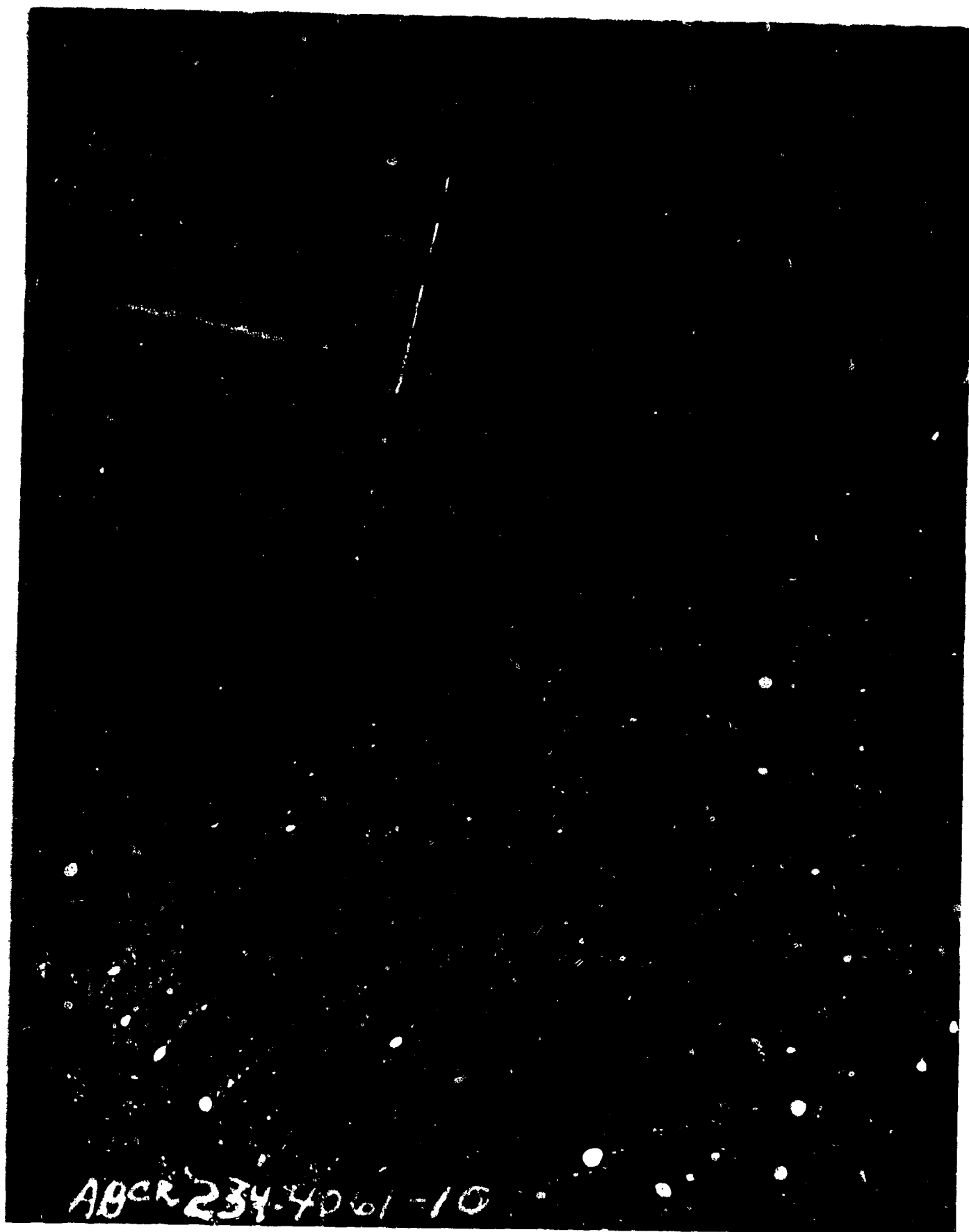
AB-CR-234-4061-9. Bevel gears on reach rods for hand operation of #2 ship's service generator. Gears visible for #2 generator do not mesh properly and bracket is bent. Taken behind forward ship's service switchboard looking down on mechanism.

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AB-CR-234-4061-10. Bevel gears on reach rods for hand operation of #1 ship's service generator. Bracket is bent and gears are completely out of line and fail to mesh at all. Taken behind forward ship's service switchboard looking down on mechanism.

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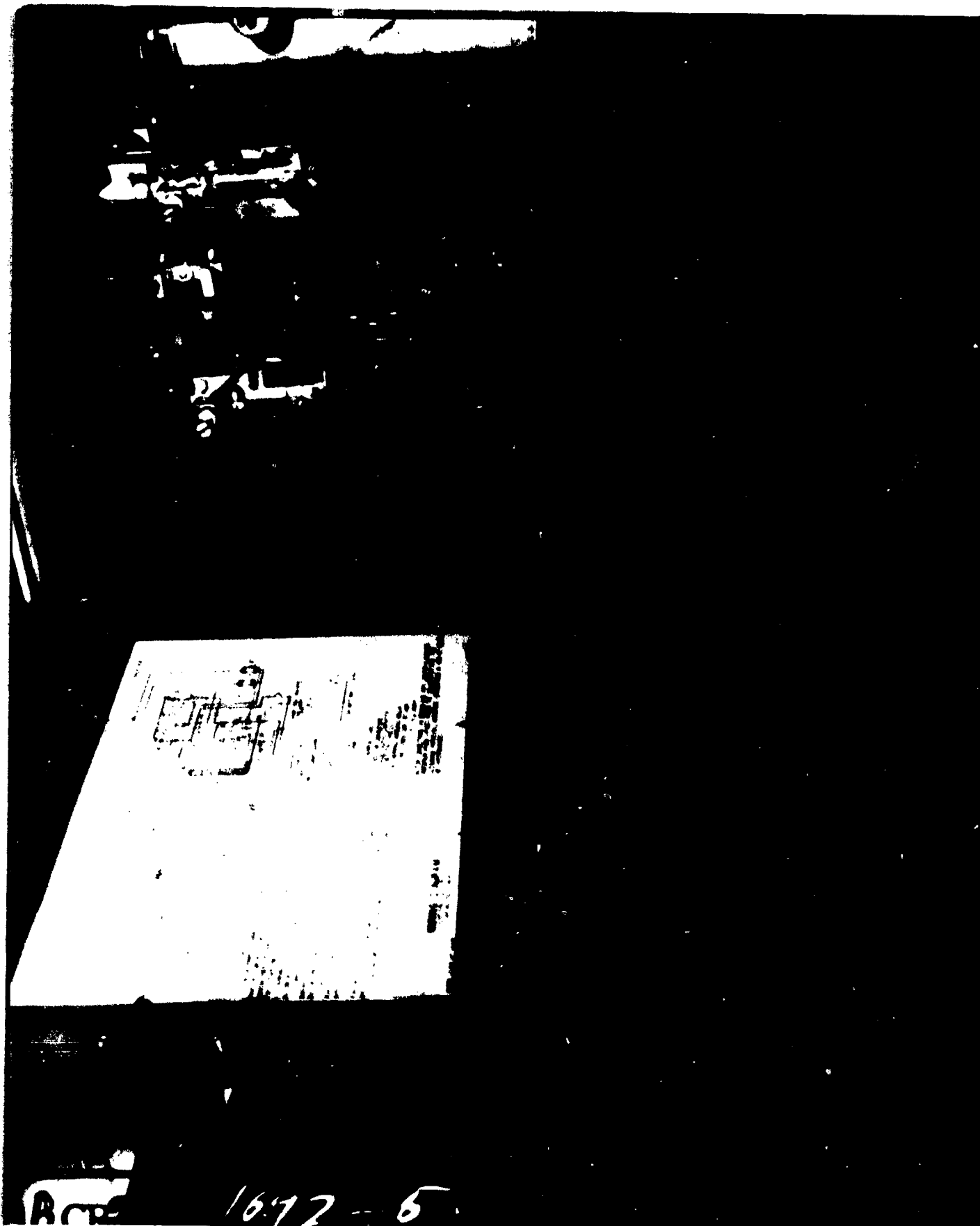
AB-CR-234-4061-11. Ebony asbestos blocks installed behind the forward ship's service generator to prevent vibration of busses. Blocks were broken. Taken behind switchboard looking to starboard near outboard end of switchboard.

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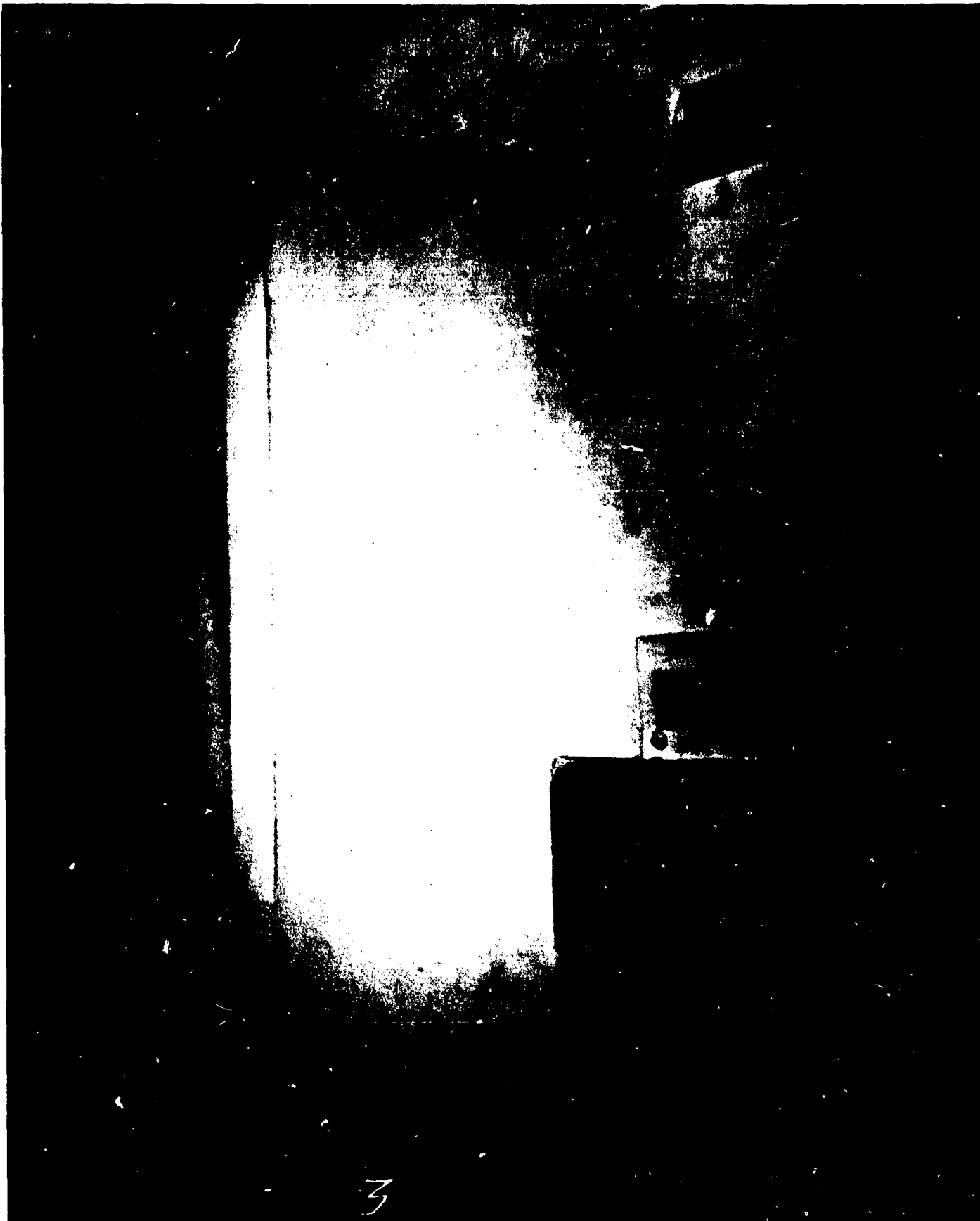
AB-CR-234-1692-5. Arc chutes tipped up in the controller for the lathe.

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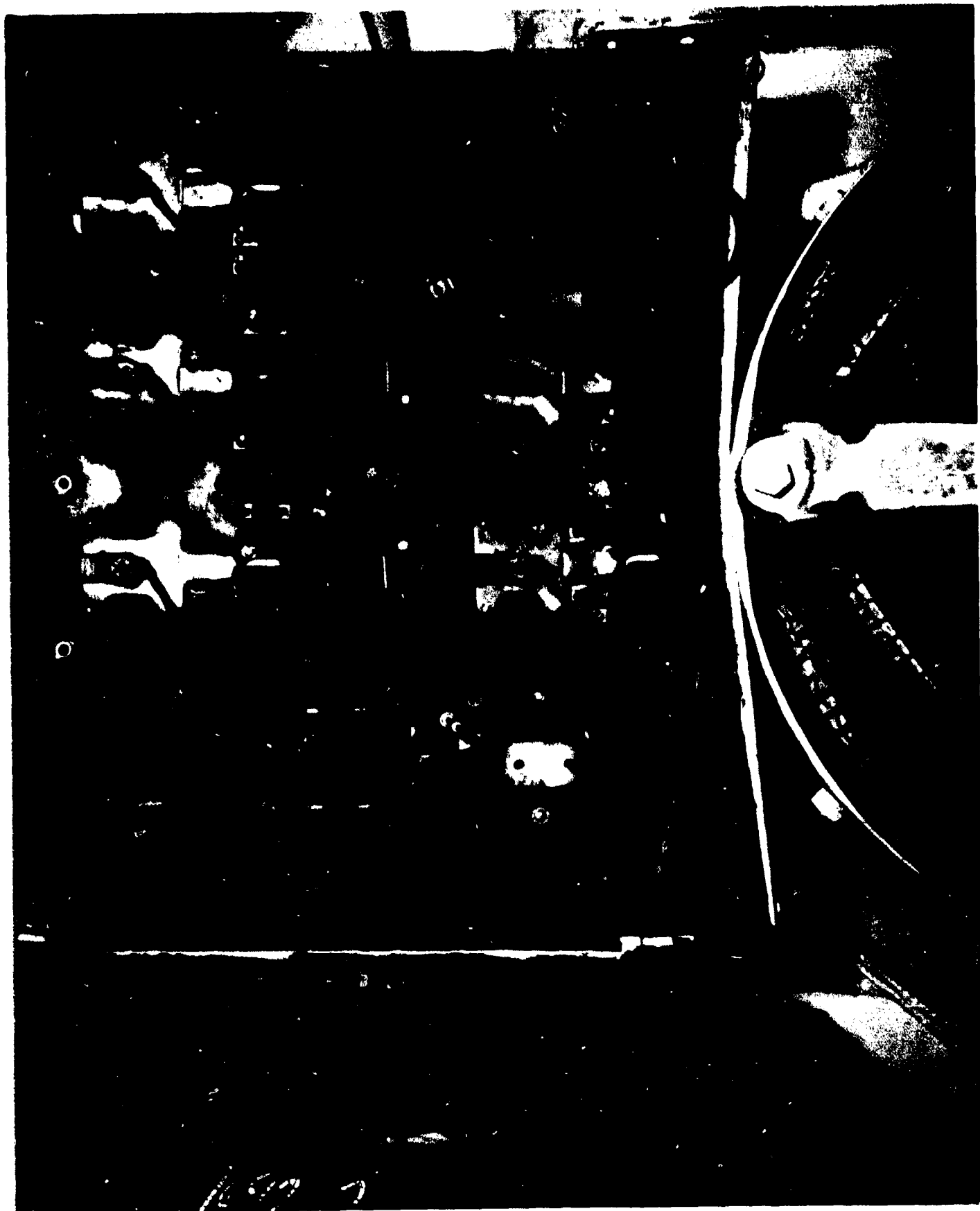
AB-CR-234-1692-3. Machine shop vent controller panel pulled out at upper bolt hole.

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AB-CR-234-1692-2. Inside of machine shop vent controller panel. Bolts through upper corners of panel have carried away and panel is leaning toward camera an amount of 5" at the top.

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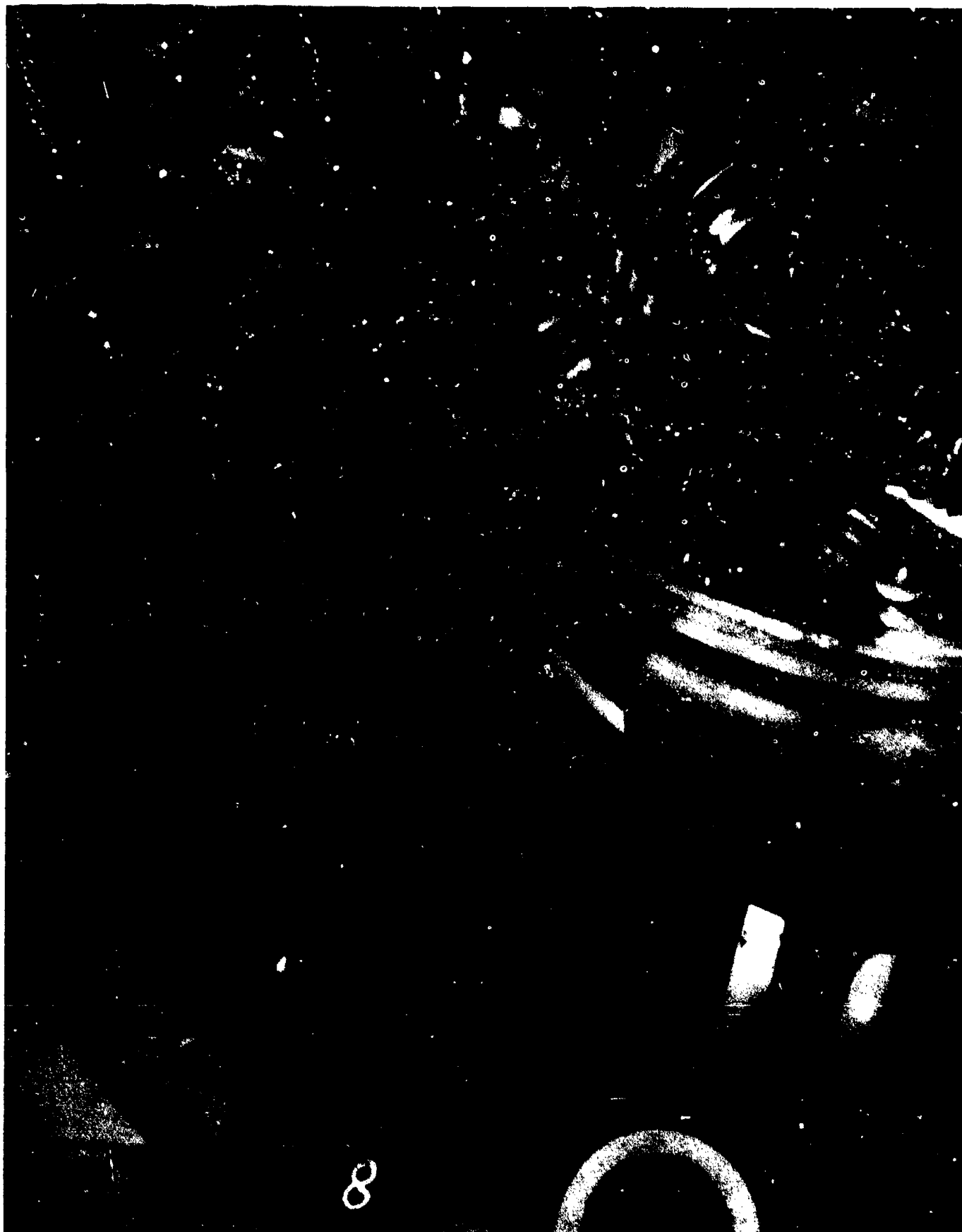
AB-CR-234-1679-6. Spring mounted light fixture with broken lamp in central station.

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AB-CR-234-1679-8. Forward master gyro compass gimble ring where supporting springs have been dislodged. One of two springs remain in position. Taken from above looking diagonally down on the compass.

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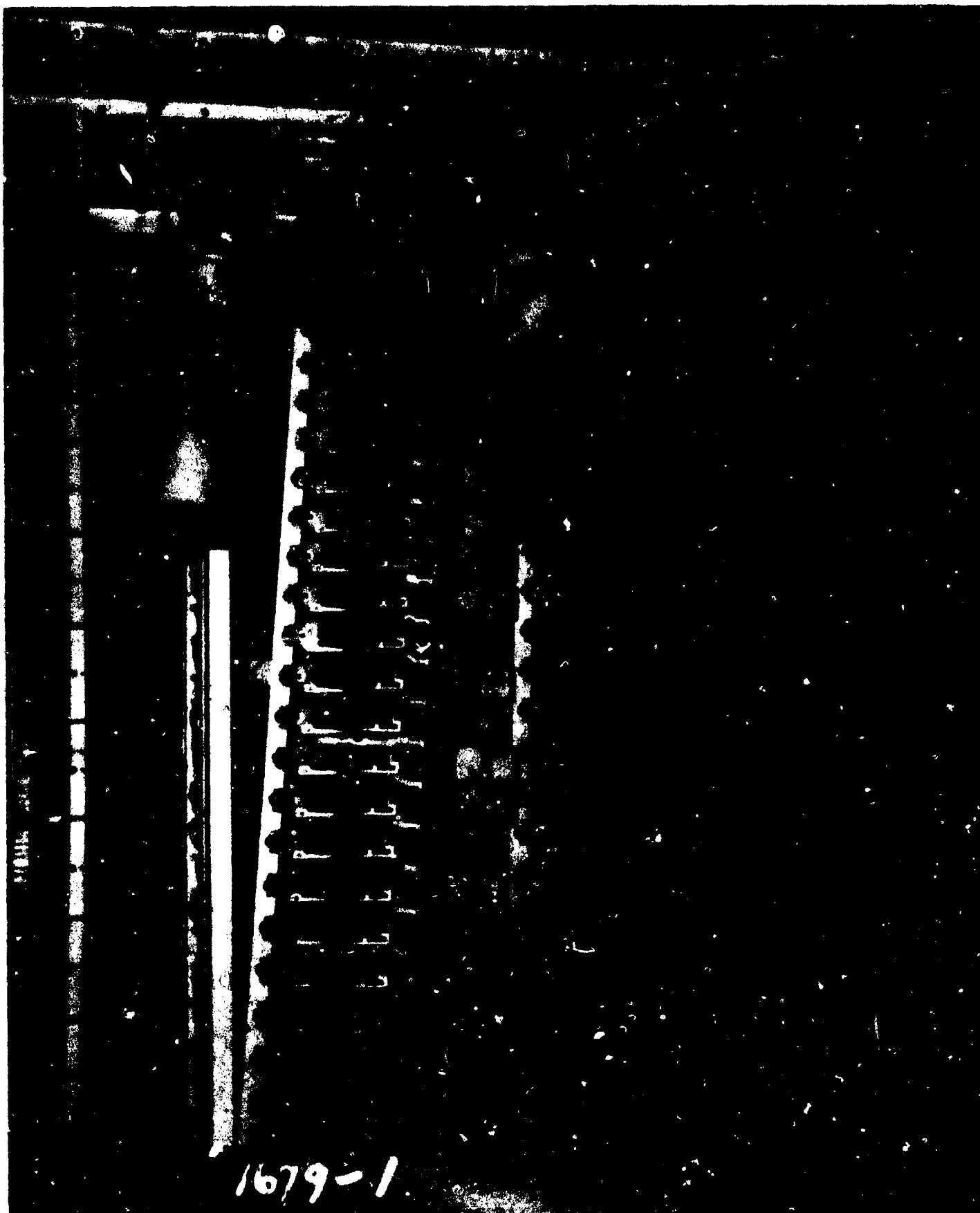
AB-CR-234-1679-9. Another view of forward master gyro compass gimble ring where supporting springs have been dislodged. Taken from above the compass looking down.

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AB-CR-234-1679-1. Automatic ship's service telephone exchange, general damage. This is a front view.

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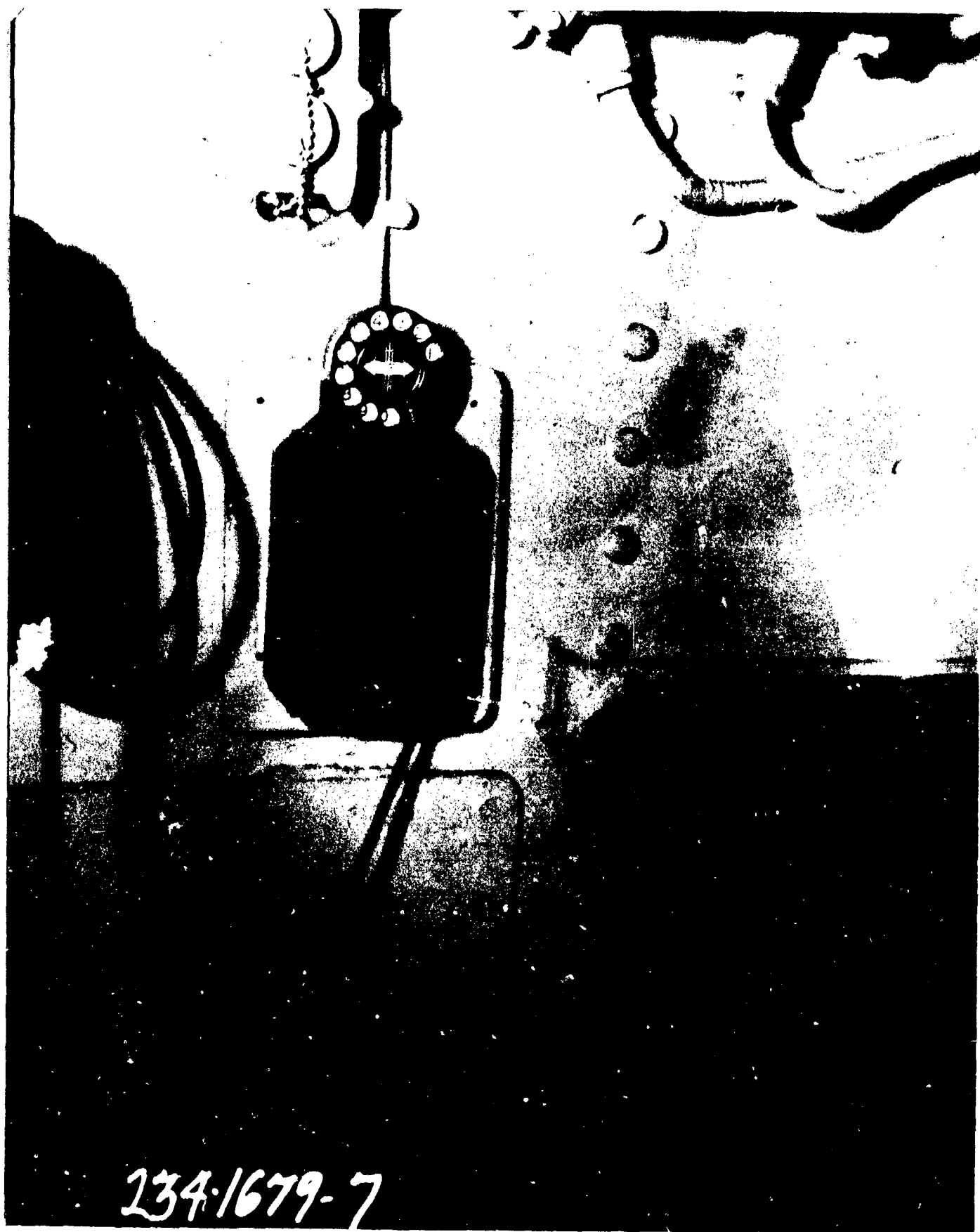
AB-CR-234-4061-12. Automatic ship's service telephone exchange, general damage. This is a rear view.

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AB-CR-234-1679-7. Damage to type B phenolic automatic telephone bulkhead set.

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AB-CR-234-1679-5. Dislocation of telephone batteries and evidence of acid spillage.

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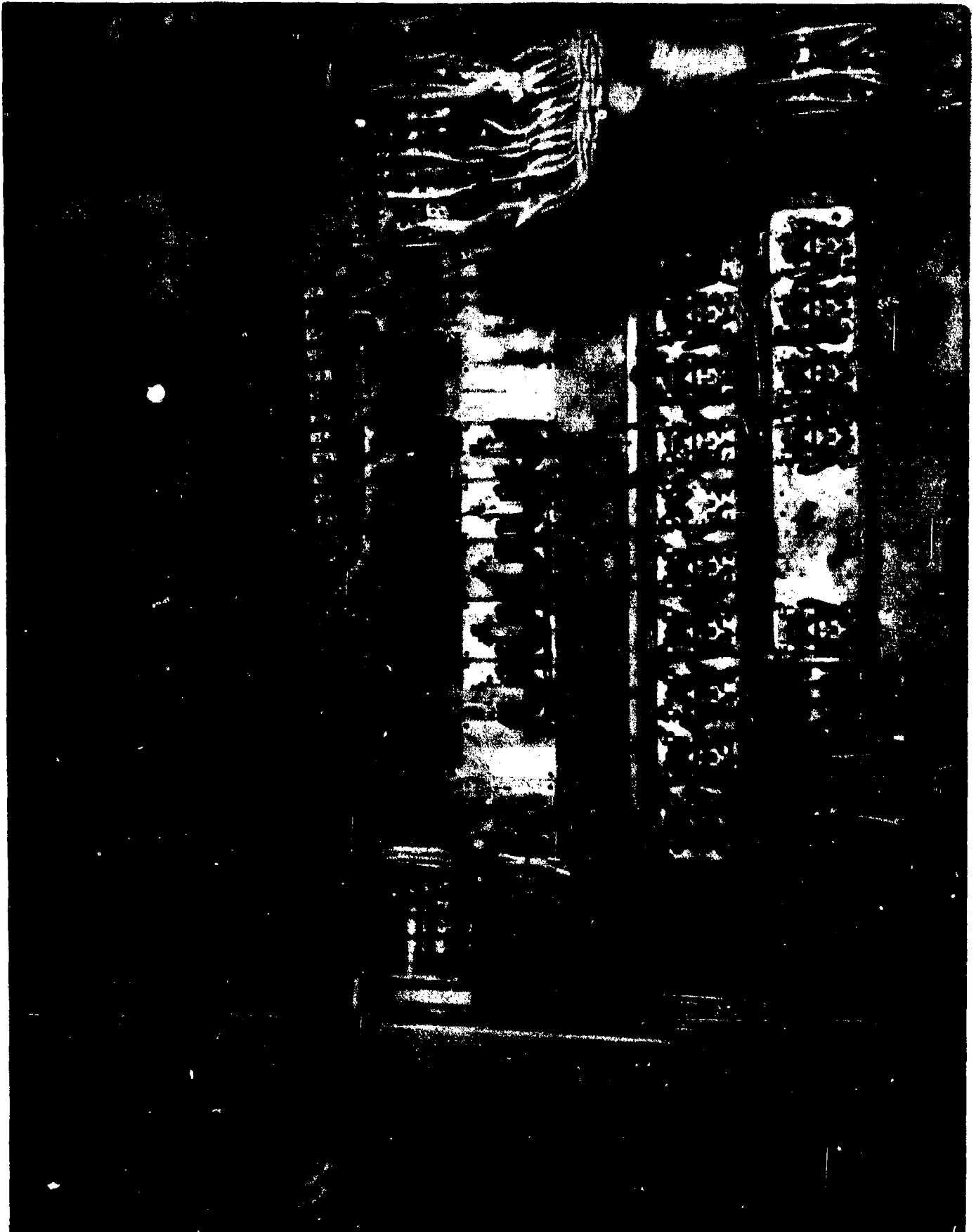
AB-CR-234-1679-2. Front view of MC amplifier rack with dislodged vacuum tubes. Located in central station.

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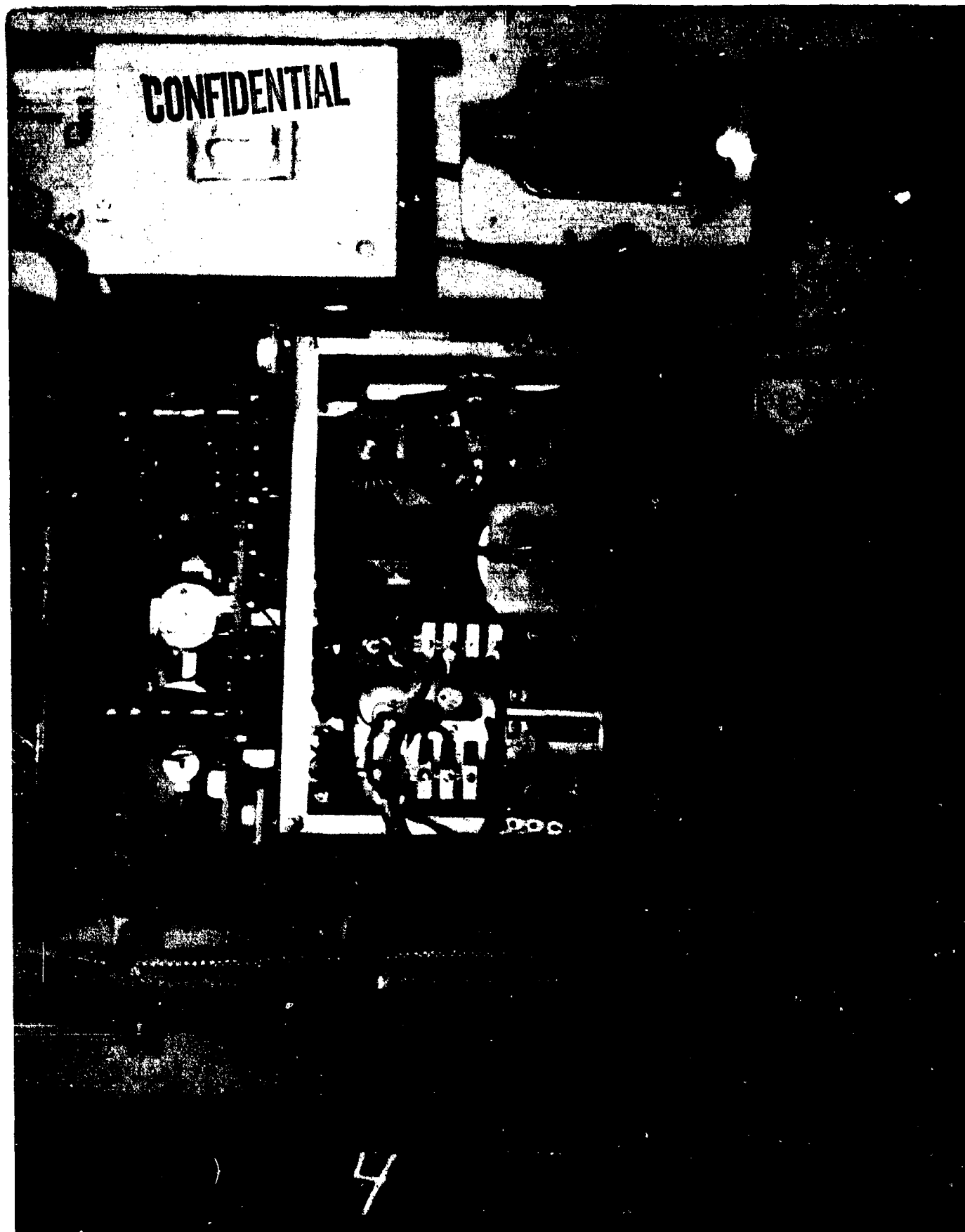
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AB-CR-234-1679-3. MC control rack in central station. Loose connections, general evidence of jarring and shock are shown. This is a front view.

SECRET

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AB-CR-234-1679-4. Front view of the constant frequency unit for the shaft revolution system. Tubes were dislodged.



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Defense Special Weapons Agency
6801 Telegraph Road
Alexandria, Virginia 22310-3398

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MEMORANDUM FOR DEFENSE TECHNICAL INFORMATION CENTER
ATTENTION: OMI/Mr. William Bush (Security)

SUBJECT: Declassification of Reports

The Defense Special Weapons Agency has declassified the following reports:

/✓AD-366588 4	XRD-203-Section 12✓
AD-366589 4	XRD-200-Section 9
AD-366590 4	XRD-204-Section 13
AD-366591 4	XRD-183
/✓AD-366586 4	XRD-201-Section 10✓
/✓AD-367487 4	XRD-131-Volume 2✓
/✓AD-367516 4	XRD- 131 143✓
/✓AD-367493 4	XRD-142✓
AD-801410L✓	XRD-138✓
AD-376831L✓	XRD-83✓
AD-366759 4	XRD-80
/✓AD-376830L 4	XRD-79✓
/✓AD-376828L 4	XRD-76✓
/✓AD-367464 4	XRD-106✓
AD-801404L✓	XRD-105-Volume 1✓
/✓AD-367459 4	XRD-100✓

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Subject: Declassification of Report

AD-376836L ✓	XRD-98 ✓
AD-376835L ✓	XRD-97 ✓
AD-376834L ✓	XRD-96 ✓
AD-376833L ✓	XRD-95 ✓
X AD-376832L ✓	XRD-94 ✓ <i>re-ingest</i>
✓✓ AD-367458 ✓	XRD-93 ✓
AD-367457 ✓	XRD-92-Volume 2 ✓
AD-367456 ✓	XRD-91-Volume 1 ✓
AD-367455 ✓	XRD-90 ✓
AD-367454 ✓	XRD-89 ✓
AD-367453 ✓	XRD-88 ✓
AD-367452 ✓	XRD-87 ✓
AD-366764 ✓	XRD-86
AD-376837L ✓	XRD-99
AD-366758 ✓	XRD-78
AD-366734 ✓	XRD-44
AD-366763 ✓	XRD-85 ✓
AD-376829L ✓	XRD-77 ✓
✓✓ AD-367462 ✕	XRD-103 ✓
✓✓ AD-367463 ✕	XRD-104 ✓
✓✓ AD-367461 ✕	XRD-102 ✓
AD-367460 ✓	XRD-101 ✓

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Subject: Declassification of Reports

AD-801406L ✓ XRD-114✓

In addition, all of the cited reports are now **approved for public release; distribution statement "A" now applies.**

Ardith Jarrett
ARDITH JARRETT
Chief, Technical Resource Center